

**SCHEDULE - P("G Schedule")**

**SCHEDULE OF PRICES FOR SUPPLY, ERECTION, TESTING AND COMMISSIONING OF 33KV,11 KV-LT LINE/UG CABLE/DT SUBSTATIONS AND ASSOCIATED SUB-SYSTEMS AT DIFFERENT LOCATIONS OF SAWAI MADHOPUR CITY. (TN-191)**

S.N.	Particulars	Unit	Tent. Qty.	Cost of Design, manufacture & supply of material including all taxes & duties (In Rs.)		Cost of Erection ,testing , commissioning alongwith associated civil works including all taxes& duties (In Rs.)		Remark
				unit cost	Total cost of supply	Unit cost	Total cost of ETC	
1	2	3	4	5	6	7	8	10
<b>A</b>	<b>11KV OVERHEAD LINE WORK (NEW LINE/AUGMENTATION)</b>							
1	CONDUCTING ROUTE SURVEY , TRIMMING OF TREE BRANCHES ALONG THE ROAD AS PER APPROVED ROUTE MAP AND PEGGING OF ROUTE WITH SECTION POINT/DOUBLE POLE LOCATION FOR SPECIFIED NUMBERS OF DIFFERENT WORKS AT DIFFERENT LOCATIONS.	KM	81	0.00	0	197.70	16013.70	
2	SUPPLY & ERECTION OF 12.8 MTR. LONG LATTICE TOWER MADE OF 65 X 65 X 5 MM M.S. ANGLE WITH 50 X 6 MM M.S. FLAT FOR BRACING INCLUDING EXCAVATION OF PIT 1.50 X 1.50 X 2.10 M IN GROUND. THE TOWER SHOULD BE ERECTED BY CC GROUTING & MUFFED IN CEMENT CONCRETE OF MIX RATIO 1:3:6 HAVING SIZE OF 1.20 X 1.20 X 2.10 M OVER BASE CONCRETE OF 100 MM THICK IN MIX 1:5:10 AS PER IS SPECIFICATIONS. THE REMAINING POSITION OF THE PIT BE BACK FILLED WITH WATERING & RAMMING AND SURPLUS MATERIAL SHALL BE DISPOSE-OFF WITHIN LEAD OF 50 M.							
a.	IN ALL TYPES OF SOIL - TOWER WEIGHT - 508 KG	Nos.	25	25421.15	635528.75	1392.15	34803.75	
b.	ORDINARY ROCK (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD -TOWER WEIGHT 508 KG.	Nos.	0	25421.15	0	2234.87	0.00	
c.	HARD ROCK/CC ROAD -TOWER WEIGHT 508 KG.	Nos.	0	25421.15	0	3140.60	0.00	
3	SUPPLY & ERECTION OF 116X100 RS JOIST 11.8 Mtr. long INCLUDING EXCAVATION OF PIT 1.50 X 1.50 X 2.10 M IN GROUND. THE RS JOIST SHOULD BE ERECTED BY CC GROUTING & MUFFED IN CEMENT CONCRETE OF MIX RATIO 1:3:6 HAVING SIZE OF 1.20 X 1.20 X 2.10 M OVER BASE CONCRETE OF 100 MM THICK IN MIX 1:5:10 AS PER IS SPECIFICATIONS. THE REMAINING POSITION OF THE PIT BE BACK FILLED WITH WATERING & RAMMING AND SURPLUS MATERIAL SHALL BE DISPOSE- OFF WITHIN LEAD OF 50 M. (Approx weight-250 kg)							
a.	IN ALL TYPES OF SOIL	Nos.	0	9212.25	0	397.60	0.00	
b.	ORDINARY ROCK (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD -Approx.WEIGHT -250 KG.	Nos.	0	9212.25	0	501.86	0.00	
c.	HARD ROCK/CC ROAD -Approx.WEIGHT -250 KG.	Nos.	0	9212.25	0	888.26	0.00	
d.	PROVIDING AND LAYING CEMENT CONCRETE INCLUDING COMPACTION ETC. AS PER SPECIFICATION DETAILED ABOVE	cum	120	0.00	0	1913.21	229585.20	
4	SUPPLY & ERECTION OF 9.00 M PCC POLES (400 KG) IN ALIGNMENT INCLDUING EXCAVATION OF PIT IN GROUND AND BACK FILLING OF SOIL CONSOLIDATING EACH DEPOSIT LAYER OF 0.15 MTR. BY PROPER WATERING & RAMMING ETC. IN THE LENGTH.							
a.	IN ALL TYPES OF SOIL	Nos.	11	2218.06	24398.66	463.26	5095.86	
b.	ORDINARY ROCK (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD.	Nos.	125	2218.06	277257.5	573.51	71688.75	
c.	HARD ROCK/CC ROAD.	Nos.	109	2218.06	241768.54	1049.79	114427.11	
5	SUPPLY AND FIXING OF 11KV 'V' CROSS ARMS MADE OF ISA M.S.ANGLE 65 X 65 X 6 MM ON THE EXISTING POLE COMPLETE WITH EARTHING ARRANGEMENT OF M.S.FLAT WELDED WITH CROSS ARMS INCLUDING ALL NECESSARY CLAMPS OF M.S. FLAT 50 X 6 MM, NUT & BOLTS ETC. WEIGHT OF THE ITEM WILL BE AS PER DRAWING EARTHING ARRANGEMENT WITH CLAMPS. NUT & BOLTS ETC.	Nos.	475	407.01	193329.75	21.74	10326.50	
6	SUPPLY AND FIXING OF 11KV 'V' CROSS ARMS MADE OF M.S.CHANNEL 100 X 50 ISMC (9.56 KG. PER MTR.) ON THE EXISTING LATTICE TOWER INCLUDING ALL NECESSARY EARTHING ARRANGEMENT WITH CLAMPS, NUT & BOLTS ETC.	Nos.	0	649.32	0	21.74	0.00	
7	SUPPLY & FIXING OF A SET OF 4 NOS. 11KV 'V' CROSS ARMS (CHAKRI) MADE ON M.S.CHANNEL 100 X 50 ISMC (9.56 KG./M) WITH BRACING OF M.S.FLAT 50 X 10 MM INCLUDING ALL NECESSARY CLAMPS, NUT & BOLTS ETC. ( 60 KG. APPROX.).	Nos.	0	1628.04	0	120.54	0.00	
8	SUPPLY & FIXING OF M.S.CHANNEL 100 X 50 ISMC (FOR CUT POINT) 2 X 1.3 METER LONG WITH PILOT PATTI 50 X 6 MM THICK ON SINGLE SUPPORT/POLE/LATTICE STRUCTURE & NECESSARY CLAMPS, NUT & BOLTS ETC. ( 29.5 KG. APPROX.).	Nos.	275	1432.66	393981.5	43.48	11957.00	
9	SUPPLY & FIXING OF 11KV, 0.3 MTR. LONG TOP HAMPER MADE OF ISA M.S.ANGLE 65 X 65 X 6 MM ON THE EXISTING POLE COMPLETE INCLUDING NUT & BOLTS ETC. (STEEL WT. 2.983 KG. APPROX.).	Nos.	425	142.75	60668.75	8.40	3570.00	
10	SUPPLY & FIXING OF 11KV DOUBLE POLE LINE STRUCTURE SET FOR CUT POINT COMPLETE ON EXISTING POLES IN ALL RESPECT WITH CLAMP, NUT & BOLTS AS REQUIRED MADE FROM M.S.CHANNEL 100 X 50 X ISMC ( 9.56 KG. PER MTR.) ISA M.S.ANGLE 65 X 65 X 6 MM, M.S.ANGLE 50 X 50 X 6 MM AND M.S.FLAT 50 X 6 MM ( 105 KG. APPROX.)	Nos.	35	4478.22	156737.7	300.23	10508.05	
11	SUPPLY & FIXING OF 11KV PORCELAIN PIN INSULATORS WITH PIN ON EXISTING POLE COMPLETE	Nos.	1980	90.21	178615.8	6.72	13305.60	
12	SUPPLY & FIXING OF SET OF 2 NO. 11KV B&S TYPE 45 KN PORCELAIN DISC INSULATOR WITH 1 NO. HARDWARE ON EXISTING BRACKET COMPLETE INCLUDING ALL ACCESSORIES ETC.	Set	610	896.09	546614.9	22.79	13901.90	
13	SUPPLY & DRAWING OF OVERHEAD ACSR 100 SQ.MM. DOG CONDUCTOR ON EXISTING CROSS ARMS THROUGH INSULATOR INCLUDING BINDING WITH 6 MM SOFT ALUMINIUM CONDUCTOR & TWISTING ETC. COMPLETE IN ALL RESPECT. (COST OF MATERIAL INCLUDES THE SAG AND JUMPERING)	Km	10	52929.90	529299	1974.95	19749.50	

	SUPPLY & DRAWING OF OVERHEAD ACSR 100 SQ.MM. WEASEL CONDUCTOR ON EXISTING CROSS ARMS THROUGH INSULATOR INCLUDING BINDING WITH 6 MM SOFT ALUMINIUM CONDUCTOR & TWISTING ETC. COMPLETE IN ALL RESPECT. (COST OF MATERIAL INCLUDES THE SAG AND JUMPERING)	Km	120	17357.46	2082895.2	985.74	118288.80	
	SUPPLY AND FIXING OF PG CLAMPS FOR WEASEL	Nos.	450	39.10	17595	3.36	1512.00	
14	SUPPLY AND FIXING OF PG CLAMPS FOR DOG	Nos.	90	135.67	12210.3	3.36	302.40	

14(i)	SUPPLY & DRAWING OF OVERHEAD ACSR RABBIT CONDUCTOR ON EXISTING CROSS ARMS THROUGH INSULATOR INCLUDING BINDING WITH 6 MM SOFT ALUMINIUM CONDUCTOR & TWISTING ETC. COMPLETE IN ALL RESPECT. (COST OF MATERIAL INCLUDES THE SAG AND JUMPERING)	KM	0.00	26668.5	0	1605.45	0.00	
14(ii)	SUPPLY & DRAWING OF OVERHEAD INSULATED RABBIT (HT) CONDUCTOR ON EXISTING CROSS ARMS THROUGH INSULATOR INCLUDING BINDING WITH 6 MM SOFT ALUMINIUM CONDUCTOR & TWISTING ETC. COMPLETE IN ALL RESPECT. (COST OF MATERIAL INCLUDES THE SAG AND JUMPERING)	KM	5.00	50485	252425	1974.95	9874.75	
14(iii)	SUPPLY & DRAWING OF OVERHEAD 11 KV AB CABLE 3C*70+50 SQMM CONDUCTOR COMPLETE IN ALL RESPECT. (COST OF MATERIAL INCLUDES THE SAG AND JUMPERING)	KM	0.00	445413.4	0	4482.24	0.00	
14(iv)	SUPPLY AND FIXING OF PG CLAMPS FOR RABBIT CONDUCTOR	NOS.	0.00	44.21	0	3.36	0.00	
15	SUPPLY AND FIXING OF CROSS ARM 1.5 MTRS LONG SUITABLE FOR HOLDING GI EARTH WIRES AT BOTH ENDS. THE CROSS ARM SHALL BE MADE UP OF 65X65X5 ISA [ 5.8 KGS PER MTR] M.S.ANGLE INCLUDING NECESSARY CLAMPS AND BOLTS ETC. [TOTAL WEIGHT 9.714 KGS. APPROX]	MT	0	47855.55	0	1893.14	0.00	
16	SUPPLY AND DRAWING OF GS WIRE NO. 8 SWG HOT DIP GALVANISED COMPLETE IN ALL RESPECT WITH BINDING WIRE.	MT	0	53965.91	0	5905.11	0.00	
17	SUPPLY & INSULATION OF HD GALVANISED M.S.ROD TYPE EARTHING SET MADE UP OF M.S.ROD 20 MM DIA. 3 METER LONG ALONGWITH EARTHING CLAMP & 8 SWG EARTH WIRE 15 METER LONG (FOR EARTHING OF 11 KV LINE) DRIVEN BY MECHANICAL MEANS INTO EARTH HOLE (MADE BY AUGERING) AND CONNECTING THE MS ROD TYPE EARTHING SET WITH CROSS ARMS, TOP HAMBERS, PCC POLE/STRUCTURE & EARTH WIRE ETC.	set	103	451.27	46480.81	227.12	23393.36	
18	SUPPLY AND ERECTION OF GS STAY SET COMPLETE WITH 20 MM DIA., 2.4 METER LONG STAY ROD WITH ZINC COATED STEEL ANCHOR PLATE OF SIZE 300X300X4 MM WITH SQUARE HOLE OF SIZE 18X18 MM AT CENTRE INCLUDING STAY CLAMP INCLUDING EXCAVATION OF PIT SIZE 1.1 X 1.1 X 1.65 METER IN GROUND FOR ALL TYPE OF SOIL REFILLING WITH PROPER WATERING & RAMMING ETC., AS REQUIRED COMPLETE IN ALL RESPECT.							
a	IN ALL TYPES OF SOIL.	NOS	300	985.90	295770	238.15	71445.00	
b	ORDINARY ROCK (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD.	NOS	200	985.90	197180	346.40	69280.00	
c	HARD ROCK/CC ROAD.	NOS	120	985.90	118308	638.72	76646.40	
19	SUPPLY AND ERECTION OF GS STAY WIRE OF SIZE 7/8 SWG TIGHTENED THROUGH 11KV STRAIN INSULATOR ON EXISTING STAY SET & POLE ETC., AS REQUIRED COMPLETE IN ALL RESPECT.	MT	6.2	58075.00	360065	0.00	0.00	cost of erection included in erection cost of stay set at item no. 18
20	SUPPLY AND FIXING OF 11KV DANGER PLATE ON THE TOWERS/ POLES COMPLETE IN ALL RESPECT AS PER DRAWING.	Nos.	780	49.31	38461.8	5.04	3931.20	
21	SUPPLY AND FIXING OF GUARD BRACKET 2.2 MTRS LONG MADE FROM 75X40 ISMC [7.14 KGS PER MTR] M.S.CHANNEL INCLUDING NECESSARY CLAMPS AND BOLTS ETC. [18.0 KGS. APPROX]	Nos.	0	884.36	0	18.38	0.00	
22	SUPPLY, DRAWING AND LAYING OF MESH USING GS WIRE OF 8 SWG ON THE GUARDING FOR CROSSING AS PER STANDARD OR REQUIRED AS PER LOCATION INCLUDING BINDING AS PER DRAWING FOR ROAD/P&T/POWER LINE CROSSING	MT	0	53965.91	0	5905.11	0.00	
23	SUPPLY AND FIXING OF M.S. NUTS & BOLT 5/8" DIA ASSORTED SIZE	MT	2.5	48990.00	122475	2000.00	5000.00	
24	CUSTOMIZED CANTILIVER SUPPORTS OF M.S.ANGLE 65X65X6 MM WITH CLAMPS AS PER SITE REQUIREMENTS AS PER APPROVED DRAWING.	MT	0	47855.55	0	5000.00	0.00	
<b>B. 11 KV UNDERGROUND CABLE INCLUDING ROAD-CROSSING CABLE WORK:</b>								
1	SUPPLY, LAYING, ENERGISATION & COMMISSIONING OF UNDERGROUND CABLE FOR WORKING VOLTAGE OF 11KV ALUMINIUM CONDUCTOR (IS 7098) CABLE XLPE ARMoured AS PER IE RULES AND METHODS OF IS:1255/JVNL STANDARDS INCLUDING EXCAVATION OF 30 CMX120CM DEEP TRENCH IN LAND SPECIFIED AS BELOW, 25 CM. THICK UNDER LAYER OF SAND, "A" CLASS BRICK COVERING, REFILLING OF EARTH IN THE REMAINING PORTION, MAKING NECESSARY CONNECTION INCLUDING TESTING ETC. AS REQUIRED AND PROVIDING /FIXING CABLE ROUTE INDICATORS AT EVERY 30 MTR OF CABLE & AT EVERY TURN (AS PER LATEST SPECIFICATIONS AND DESIGN & DRAWING APPROVED BY NIGAM).[ROAD CROSSING OF CABLE SHALL BE IN DOUBLE WALLED CORRUGATED PIPE OF 200 MM DIAMETER]							
A(a).	IN DWC PIPE OF DIA.200 MM FOR CABLE OF SIZE 3X300 SQ.MM at Road crossing or wherever it is required.	KM	0	902817.56	0	354760.00	0.00	
b	IN BRICKS AS PER STANDARD (Kachha road)	KM	1	902817.56	902817.56	128060.00	128060.00	
c.	IN BRICKS AS PER STANDARD (Pakka road)	KM	0	902817.56	0	162460.00	0.00	
d.	Through manual trench less (Bogie) IN SOIL	KM	0	902817.56	0	148500.00	0.00	
e	BY HDD VERMIER (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD	KM	0	902817.56	0	448470.00	0.00	
B(a)	IN DWC PIPE OF DIA.200 MM FOR CABLE OF SIZE 3X185 SQ.MM at Road crossing or wherever it is required.	KM	5	656324.11	3281620.55	346650.00	1733250.00	
b	IN BRICKS AS PER STANDARD (Kachha road)	KM	21	656324.11	13782806.3	119950.00	2518950.00	
c.	IN BRICKS AS PER STANDARD (Pakka road)	KM	10	656324.11	6563241.1	154350.00	1543500.00	
d.	Through manual trench less (Bogie) IN SOIL	KM	0	656324.11	0	123750.00	0.00	
e	BY HDD VERMIER (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD	KM	0	656324.11	0	402930.00	0.00	
2	CABLE END TERMINATION KIT/ST JOINT, MAKING OUTDOOR JOINT FOR11 KV ALUMINUM CONDUCTOR XLPE ARMoured HT CABLE WITH OUTDOOR AND TERMINAL END PREPARATION OF JOINT AS PER MANUFACTURES KIT GUIDANCE AND DIRECTION INCLUDING PREPARATION OF CABLE END & TESTING ETC							
a.	XLPE 3X300 SQ.MM H.S. ON OUTDOOR TYPE	Nos	6	1393.94	8363.64	816.45	4898.70	
b	XLPE 3X185 SQ.MM H.S. ON OUTDOOR TYPE	Nos	70	1127.95	78956.5	699.83	48988.10	
c.	XLPE 3X300 SQ.MM H.S.S.T. JOINT	Nos	2	3634.54	7269.08	1700.92	3401.84	
d.	XLPE 3X185 SQ.MM H.S.S.T. JOINT	Nos	6	3285.79	19714.74	1457.87	8747.22	
e	PROVIDING AND FIXING OF HT PILLAR BOX INCLUDING CONNECTION OF CABLES	Nos	4	35312.00	141248	8828.00	35312.00	

3	PROVIDING ,FABRICATION AND FIXING OF BLACK CLAMP AND STAY CLAMP USING MS FLAT 50X10MM(COLD BENDING) FOR CROSS ARMS, STAY, EARTH AND GUARDING BRACKET OF MS FLAT INCLUDING CUTTING, WELDING DRILLING OF HOLES IN ALL RESPECT AS PER DESIGN AND DRAWING INCLUDING REQUIRED NUT BOLTS.	MT	10	44566.55	445665.5	3000.00	30000.00	
4	SUPPLY & INSLATION OF HD GALVANISED M.S.ROD TYPE EARTHING SET MADE UP OF M.S.ROD 20 MM DIA. 3 METER LONG ALONGWITH EARTHING CLAMP & 8 SWG EARTH WIRE 15 METER LONG (FOR EARTHING OF 11 KV LINE) DRIVEN BY MECHANICAL MEANS INTO EARTH HOLE (MADE BY AUGERING) AND CONNECTING THE MS ROD TYPE EARTHING SET WITH CROSS ARMS, TOP HAMPER, PCC POLE/STRUCTURE & EARTH WIRE ETC.	Set	50	451.27	22563.5	227.12	11356.00	
5	PROVIDING AND FIXING OF G.I. PIPE OF 150 MM DIAMETER, B-CLASS (IS:1239 MARK), AT THE STARTING AND FINISHING POINT OF 11 KV UNDER GROUND CABLES AND TO LAY & CLAMP VERTICALLY WITH THE EXISTING SUPPORT, INCLUDING LABOUR CHARGES.	Mtr.	640	0.00	0	931.80	596352.00	cost of this supplied item included in erection cost
<b>C. RMU AND ASSOCIATED WORKS:</b>								
1	SUPPLY, ERECTION, TESTING AND COMMISSIONING OF 3CX70 SQ.MM.6.35/11 KV A2 XFY CABLE AS PER IS:- 7098 PART -II/ 1985	KM	0	0.00	0	167492.00	0.00	cable shall be provided by Nigam
2	SUPPLY, ERECTION, TESTING AND COMMISSIONING OF MATERIALS FOR HEAT SHRINKABLE TERMINATIONS.							
2.1	INDOOR TERMINATIONS							
a.	185 SQ.MM. XLPE	Nos	0	976.06	0	641.52	0.00	
b.	70 SQ.MM. XLPE FOR DT	Nos	0	929.29	0	641.52	0.00	
2.2	OUTDOOR TERMINATION							
a.	185 SQ.MM. XLPE	Nos	0	1127.95	0	699.83	0.00	
b.	70 SQ.MM.XLPE FOR OUTDOOR TERMINATIONS	Nos	0	1167.89	0	699.83	0.00	
<b>D. RETRIEVAL OF MATERIALFROM THE EXISTING POLE MOUNTED S/S WITH ASSOCIATED LINES AFTER MODIFICATION &amp; RMUS INSTALLATION.</b>								
1	PCC POLES 9 MTRS.	Nos.	0	0.00	0	240.16	0.00	
2	PCC POLES 8 MTRS.	Nos.	0	0.00	0	157.75	0.00	
3	11 KV V-CROSS ARM & TOP HAMPER	Nos.	0	0.00	0	18.08	0.00	
4	11 KV PIN INSULATORS WITH PIN	Nos.	0	0.00	0	4.03	0.00	
5	DISC INSULATOR WITH HARDWARE B & S TYPE	Sets.	0	0.00	0	9.07	0.00	
6	ACSR PANTHER CONDUCTOR	Km.	0	0.00	0	3249.29	0.00	
7	ACSR DOG CONDUCTOR	Km.	0	0.00	0	1184.97	0.00	
8	ACSR RACCOON CONDUCTOR	Km.	0	0.00	0	1094.63	0.00	
9	ACSR RABBIT CONDUCTOR	Km.	0	0.00	0	963.27	0.00	
10	ACSR WEASEL CONDUCTOR	Km.	0	0.00	0	591.44	0.00	
11	GI EARTH WIRE	Km.	0	0.00	0	347.43	0.00	
12	11KV SWITCH FUSE UNIT	Sets.	0	0.00	0	391.86	0.00	
13	11KV HORN GAP FUSE UNIT	Nos.	0	0.00	0	180.88	0.00	
14	11KV A B SWITCH UNIT	Sets.	0	0.00	0	391.86	0.00	
15	11KV L A	Sets.	0	0.00	0	180.88	0.00	
16	11KV G O SWITCH DOUBLE BREAK W/O EARTH BLADE	Sets.	0	0.00	0	351.67	0.00	
17	11KV C T P T SET	Nos.	0	0.00	0	502.80	0.00	
18	RS JOISTS	MT.	0	0.00	0	700.31	0.00	
19	MS RAILS	MT.	0	0.00	0	634.03	0.00	
20	MS CHANNEL BRACKETS	MT.	0	0.00	0	1800.00	0.00	
21	MS ANGLE BRACKETS	MT.	0	0.00	0	1800.00	0.00	
22	MS FLAT IRON CLAMPS	MT.	0	0.00	0	1800.00	0.00	
23	MS NUT BOLTS ASSORTED SIZE	MT.	0	0.00	0	1200.00	0.00	
<b>E 11/0.4 KV DT SUB-STATION WORKS.</b>								
1	SUPPLY & ERECTION OF 9.0 MTR. PCC POLES (400 KG) IN ALLIGNMENT INCLUDING EXCAVATION OF PIT IN GROUND AND BACK FILLING SOIL CONSOLIDATING EACH DEPOSIT LAYER OF 0.15 MTR. BY PROPER WATERING & RAMMING ETC. IN THE LENGTH.							
a.	SOIL (EVERY TYPE)	Nos.	50	2218.06	110903	463.26	23163.00	
b.	ORDINARY ROCK (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD	Nos.	115	2218.06	255076.9	573.51	65953.65	
c.	HARD ROCK/CC ROAD	Nos.	150	2218.06	332709	1049.79	157468.50	
2	SUPPLY & ERECTION OF 116X100 RS JOIST 11.8 Mtr. long (250 KG) IN ALLIGNMENT INCLUDING EXCAVATION OF PIT IN GROUND AND BACK FILLING SOIL CONSOLIDATING EACH DEPOSIT LAYER OF 0.15 MTR. BY PROPER WATERING & RAMMING ETC. IN THE LENGTH.							
a.	SOIL (EVERY TYPE)	Nos.	0	9212.25	0	354.80	0.00	
b.	ORDINARY ROCK (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD	Nos.	0	9212.25	0	465.05	0.00	
c.	HARD ROCK/CC ROAD	Nos.	0	9212.25	0	941.33	0.00	
3	SUPPLY AND ASSEMBLY OF 2 POLE SUB-STATION STRUCTURE ON EXISTING ERECTED PCC POLE/STEEL SUPPORT AS PER APPROVED DESIGN AND DRAWING INCLUDING NUT & BOLT (STEEL WT. 284 KG. APPROX.)	Set	45	6268.95	282102.75	879.27	39567.15	
3(I)	SUPPLY AND ASSEMBLY OF 1 POLE SUB-STATION STRUCTURE ON EXISTING ERECTED PCC POLE/STEEL SUPPORT AS PER APPROVED DESIGN AND DRAWING INCLUDING NUT & BOLT (STEEL WT. 284 KG. APPROX.) SUITABLE FOR 3 PHASE 10 & 16 KVA TRANSFORMER	SET	75.00	1606.65	120498.75	577.5	43312.50	
3(II)	SUPPLY AND ASSEMBLY OF 1 POLE SUB-STATION STRUCTURE ON EXISTING ERECTED PCC POLE/STEEL SUPPORT AS PER APPROVED DESIGN AND DRAWING INCLUDING NUT & BOLT (STEEL WT. 284 KG. APPROX.) SUITABLE FOR 1 PHASE UPTO 25 KVA TRANSFORMER	SET	45.00	1606.65	72299.25	577.5	25987.50	
3(III)	SINGLE PHASE SFU	NOS	105.00	4220.5	443152.5	326.87	34321.35	

4	SUPPLY AND ASSEMBLY, INSTALLATION & COMMISSIONING OF 11KV WITH ( 9 X 12KV POST INSULATOR) 400 AMP. DOUBLE BREAK WITHOUT EB GO ISOLATOR SWITCH SET (CONSISTING OF 3 LIMBS) ON ERECTED STRUCTURE WITH SETTING OF ACCURATE OPERATION INCLUDING FIXING OF ALLIED ACCESSORIES IN ALL RESPECT AND JUMPERING ON BOTH ENDS WITH SUITABLE CLAMPS FOR CONNECTION WITH THE SYSTEM INCLUDING NUT & BOLTS ETC.	Set	205	11094.80	2274434	586.11	120152.55	
5	SUPPLY AND ASSEMBLY, INSTALLATION OF 11KV HORN GAP FUSE SET (CONSISTING OF 3 LIMBS) WITH 6 NOS. 12 KV POST INSULATOR ON ERECTED STRUCTURE AS PER DESIGN / DRAWING COMPLETE IN ALL RESPECT AND JUMPERING ON BOTH ENDS WITH SUITABLE CLAMPS FOR CONNECTION WITH THE SYSTEM INCLUDING NUT & BOLTS & OTHER ACCESSORIES ETC.	Set	295	4306.67	1270467.65	301.46	88930.70	
6	SUPPLY AND INSTALLATION OF LIGHTENING ARRESTOR ( FEEDER TYPE) ON ERECTED STRUCTURE / SUPPORT ( SET OF 3 NOS. ) INCLUDING CONNECTION WITH EARTH BY 6 SWG GI WIRE AS REQUIRED AND JUMPERING ETC., WITH ALL ACCESSORIES IN SEPARATE EARTH PIT	Set	185	11237.58	2078952.3	301.46	55770.10	
7	SUPPLY AND FIXING OF 11KV PORCELAIN DISC INSULATOR (B&S TYPE) ONE H/W WITH 2 DISC INSULATOR ( 45 KN) FOR DOG JCONDUCTOR ON EXISTING BRACKETS COMPLETE INCLUDING ALL ACCESSORIES LIKE HARD WARE, FITTING, NUT, BOLTS & WASHER ETC.	Set	0	928.93	0	22.79	0.00	
8	SUPPLY AND FIXING OF 11KV PORCELAIN PIN INSULATOR WITH PIN ON EXISTING BRACKET	Nos	521	90.21	46999.41	6.72	3501.12	
9	LOADING/TRANSPORATION FROM CIRCLE STORES, INSTALLATION, TESTING & COMMISSIONING OF 11/4 KV DISTRIBUTION TRANSFORMER ON ERECTED SUPPORT INCLUDING FIXING OF BASE CHANNEL AS PER REQUIREMENT, JUMPERING HV & LV SIDE LUGGING / CLAMPING EARTH CONNECTION OF BODY & NEUTRAL OF TRANSFORMER WITH STAY WIRE 7/10 SWG ( AS ALREADY PROVIDED WITH EARTHING) COMPLETE IN ALL RESPECT INCLUDING PG CLAMPS NUT & BOLTS ETC. (DTS SHALL BE PROVIDED BY THE PURCHASER).							(DTs shall be provided by the Nigam).
a.	500 KVA	Nos.	1	0.00	0	715.47	715.47	
b.	315 KVA	Nos.	1	0.00	0	637.77	637.77	
c.	250 KVA	Nos.	7	0.00	0	637.77	4464.39	
d.	160 KVA	Nos.	10	0.00	0	637.77	6377.70	
e.	100 KVA	Nos.	42	0.00	0	561.33	23575.86	
f.	25 KVA	NOS.	15.00	0.00	0	420.74	6311.10	
g.	16 KVA	NOS.	0.00	0.00	0	420	0.00	
h.	10KVA	NOS.	0.00	0.00	0	420	0.00	
10	SUPPLY & INSTALLATION OF LT SUPPLY PILLAR BOX OF 400/200 AMP. CAPACITY AS PER SPECIFICATION OF NIGAM. EACH BASE SHOULD BE GROUTED INCLUDING EXCAVATION, BRICKS, SAND, CEMENT MASONARY OF SIZE 4"x3"x10" AND 3' IN GROUND & 1.5 ' ABOVE ROAD LEVEL WITH MUFFING TO SUPPORT & MOUNTING THE PILLAR. THE MASONARY WILL HAVE 4"x4" OPENING 2" BELOW GROUND LEVEL TWO IN REAR SIDE & ONE EACH IN THE REMAINING SIDES TO FACILITATE ENTRY & EXIT OF INCOMING & OUT GOING CABLES. EARTHING OF THE PILLAR BOX SHALL BE CONNECTED TO DP EARTH WITH 7/10 SWG STAY WIRE & LUGS DULY BOLTED ON THE PLACE MEANT FOR. XLPE CABLES INSIDE THE BOX SHALL BE FIXED WITH CLAMPS MAKING CONNECTIONS /JUMPERS BY ALUMINIUM. LUGS/PG CLAMPS OF REQUIRED SIZE ON LT DISTRIBUTION MAINS ON ONE END & WITH MCB/ WITH ISOLATOR ON THE OTHER END. LUGS SHOULD BE CRIMPED WITH CRIMPING TOOLS INCLUDING COST OF LUGS, PG CLAMPS & NUTS, BOLTS ETC.							
(a)	SUPPLY & INSTALLATION OF LT PILLAR BOX 200 AMP	Nos.	80	22586.89	1806951.2	1498.88	119910.40	
(b)	SUPPLY & INSTALLATION OF LT PILLAR BOX 400 AMP	Nos.	42	39753.46	1669645.32	1498.88	62952.96	
11	SUPPLY AND FIXING OF 1 CORE LT XLPE INSULATED PVC SHEATHED UN ARMoured CABLE OF 1100 VOLT BETWEEN DISTRIBUTION TRANSFORMER LT BUSHING ON ONE END & LT PILLAR BOX ON ANOTHER SIDE AND FROM LT PILLAR TO MINIMUM TWO NUMBER OUTGOING CIRCUIT(S) ON LT LINE SUPPORTS USING CLAMPS/LUGS OF PROPER SIZE DULY CRIMPED AND FIRMLY FASTENED WITH SUPPORTS/LAID IN EARTH.							
a.	SIZE 1CX400 AS INCOMER ON DT OF RATING 315 KVA & ABOVE FROM LT BUSHING TO LT PILLAR BOX INCOMING POINT.	KM	0	0.00	0	0.00	0.00	
b.	SIZE 1CX300 SQ.MM FOR OUTGOING CIRCUIT OF DT RATING 315 KVA & ABOVE FROM LT PILLAR BOX OUTGOING POINT TO LT LINE ON SUPPORT.	KM	0.85	114083.23	96970.75	703.40	597.89	
c.	SIZE 1CX185 SQ.MM FOR OUTGOING CIRCUIT OF DT RATING OF 100KVA FROM LT BUSHING OF DT TO PILLAR BOX AS WELL AS LT PILLAR BOX OUTGOING POINT TO LT LINE ON SUPPORT.	KM	5	106276.56	531382.8	455.49	2277.45	
12	SUPPLY & INSTALLATION OF THREE NOS. HD GALVANISED M.S.ROD TYPE EARTHING SET MADE UP OF M.S.ROD 20 MM DIA. 3 METER LONG ALONGWITH EARTHING CLAMP & 8 SWG EARTH WIRE 15 METER LONG IN PIT 1 X 1.5 X 1 M FOR EARTHING OF 11/4 KV DISTRIBUTION TRANSFORMER & S/S STRUCTURE & DRIVING THEM BY MECHANICAL MEANS INTO EARTH HOLE (MADE BY AUGERING) AT THREE DIFFERENT PLACES AS PER APPROVED DESIGN, DRAWING & SPECIFICATION INCLUDING CONNECTING WITH TRANSFORMER S/S STRUCTURE & LIGHTENING ARRESTOR SEPARATELY WITH GI WIRE 8 SWG AND LUGS & BOLTS.	Set	1425	1353.81	1929179.25	456.54	650569.50	
13	CAPACITY AUGMENTATION OF DT: SAFE LOADING OF 11/0.4 KV DISTRIBUTION TRANSFORMERS FROM STORES WITHIN 10 KMS AND UNLOADING , INSTALLATION, TESTING AND COMMISSIONING AT DESIGNATED SUB-STATION SITE. (DTS SHALL BE PROVIDED BY THE PURCHASER).							(DTS SHALL BE PROVIDED BY THE PURCHASER).
a.	63 TO 100 KVA	Nos.	10	0.00	0	739.63	7396.30	
b.	100 KVA TO 160 KVA	Nos.	5	0.00	0	1012.10	5060.50	
c.	160 TO 250 KVA	Nos.	0	0.00	0	1012.10	0.00	
d.	250 TO 315 KVA	Nos.	0	0.00	0	1012.10	0.00	
e.	315 TO 500 KVA	Nos.	0	0.00	0	1505.18	0.00	

13(i)	LOADING/TRANSPORATION FROM CIRCLE STORES, INSTALLATION, TESTING & COMMISSIONING OF 6.35/0.24 KV DISTRIBUTION TRANSFORMER ON ERECTED SUPPORT INCLUDING FIXING OF BASE CHANNEL AS PER REQUIREMENT, JUMPERING HV & LV SIDE LUGGING / CLAMPING EARTH CONNECTION OF BODY & NEUTRAL OF TRANSFORMER WITH STAY WIRE 7/10 SWG ( AS ALREADY PROVIDED WITH EARTHING) COMPLETE IN ALL RESPECT INCLUDING PG CLAMPS NUT & BOLTS ETC. (DTS SHALL BE PROVIDED BY THE PURCHASER).							(DTS SHALL BE PROVIDED BY THE PURCHASER).
a.	25 KVA	NOS.	45.00	0.00	0	420.74	18933.30	
b.	16 KVA	NOS.	0.00	0.00	0	420.74	0.00	
14	SAFE LOADING AND CARRIAGE OF SPARED 63/100/160/250/315 KVA DISTRIBUTION TRANSFORMERS FROM DT SUB-STATION AND UN-LOADING /DEPOSIT IN STORES WITHIN 10 KMS.	Nos.	0	0.00	0	656.50	0.00	
10(i)	SUPPLY AND FIXING OF 3.5/4 CORE LT XLPE INSULATED PVC SHEATHED UN ARMoured CABLE OF 1100 VOLT BETWEEN DISTRIBUTION TRANSFORMER LT BUSSHING ON ONE END & LT PILLAR BOX ON ANOTHER SIDE AND FROM LT PILLAR TO MINIMUM TWO NUMBER OUTGOING CIRCUIT(S) ON LT LINE SUPPORTS USING CLAMPS/LUGS OF PROPER SIZE DULY CRIMPED AND FIRMLY FASTENED WITH SUPPORTS/LAID IN EARTH. (using bricks as per standard)							
a.	SIZE 4CX300 SQMM	KM	2.01	834470.8	1677286.31	110200	221502.00	
b.	SIZE 4CX185 SQ.MM	KM	3.50	544824.57	1906886	100200	350700.00	
c.	SIZE 4CX120 SQ.MM	KM	4.00	316701.69	1266806.76	100200	400800.00	
d.	SIZE 4CX50 SQ.MM	KM	2.05	119869.79	245733.07	80200	164410.00	
11	SUPPLY & FIXING OF MS FLAT 50*6 MM (4.5x2.36 kg/set) for earthing	set	2500.00	518.585	1296462.5	207.27	518175.00	
F	LT OVERHEAD WORKS.(NEW LINE/ AUGMENTATION/CONVERSION FROM 1-PH TO 3-PH LINE).							
1	CONDUCTING ROUTE SURVEY , TRIMMING OF TREE BRANCHES ALONG THE ROAD AS PER APPROVED ROUTE MAP AND PEGGING OF ROUTE WITH SECTION POINT/DOUBLE POLE LOCATION FOR SPECIFIED NUMBERS OF DIFFERENT WORKS AT DIFFERENT LOCATIONS.	Km	80	0.00	0	197.70	15816.00	
2	SUPPLY & ERECTION OF 9.00 M PCC POLES (200 KG) IN ALLIGNMENT INCLDUING EXCAVATION OF PIT IN GROUND AND BACK FILLING OF SOIL CONSOLIDATING EACH DEPOSIT LAYER OF 0.15 MTR. BY PROPER WATERING & RAMMING ETC. IN THE LENGTH.							
a.	IN ALL TYPES OF SOIL.	Nos.	100	1950.98	195098	393.75	39375.00	
b.	ORDINARY ROCK (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD.	Nos.	50	1950.98	97549	504.00	25200.00	
c.	HARD ROCK/CC ROAD.	Nos.	30	1950.98	58529.4	980.28	29408.40	
3	SUPPLY & ERECTION OF 8.00 M PCC POLES (200 KG) IN ALLIGNMENT INCLDUING EXCAVATION OF PIT IN GROUND AND BACK FILLING OF SOIL CONSOLIDATING EACH DEPOSIT LAYER OF 0.15 MTR. BY PROPER WATERING & RAMMING ETC. IN THE LENGTH.							
a.	IN ALL TYPES OF SOIL.	Nos	180	1330.55	239499	322.04	57967.20	
b.	ORDINARY ROCK (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD.	Nos	70	1330.55	93138.5	426.30	29841.00	
c.	HARD ROCK/CC ROAD.	Nos	35	1330.55	46569.25	812.70	28444.50	
4.1	SUPPLY & FIXING OF 4' LONG LT CROSS ARMS MADE OF ISA M.S. ANGLE 50X50X6 MM ON THE EXISTING POLE COMPLETE WITH CLAMP OF M.S.FLAT WITH NUT & BOLTS ETC. (APPX. WEIGHT - KG.).	Nos.	970	323.97	314250.9	13.44	13036.80	
4.2	SUPPLY & FIXING OF 2' LONG LT CROSS ARMS MADE OF ISA M.S. ANGLE 50X50X6 MM ON THE EXISTING POLE COMPLETE WITH CLAMP OF M.S.FLAT WITH NUT & BOLTS ETC. (APPX. WEIGHT - KG.).	Nos	1125	173.12	194760	11.76	13230.00	
5	SUPPLY & FIXING OF LT PORCELAIN PIN INSULATORS WITH PIN ON THE BRACKET OF EXISTING POLE COMPLETE INCLUDING ALL ACCESSORIES LIKE HARDWARE FITTING ETC.	Nos.	2800	43.97	123116	4.20	11760.00	
6	SUPPLY & FIXING OF LT SHACKLE INSULATORS WITH SHACKLE H/W ON THE BRACKET OF EXISTING POLE COMPLETE INCLUDING ALL ACCESSORIES LIKE HARDWARE FITTING ETC.	Nos.	2100	44.23	92883	6.72	14112.00	
7	SUPPLY AND DRAWING OF OVERHEAD CONDUCTOR ON EXISTING CROSS ARMS THROUGH INSULATOR INCLUDING BINDING WITH 6 MM SOFT ALUMINIUM CONDUCTOR & TWISTING ETC. INCLUDING CLAMPS AND CONNECTORS, COMPLETE IN ALL RESPECT. (COST OF MATERIAL INCLUDES THE SAG AND JUMPERING)							
a.	ACSR 50 SQ.MM. BARE RABBIT CONDUCTOR	Km	15	26668.50	400027.5	1605.45	24081.75	
b.	ACSR 50 SQ.MM. INSULATED RABBIT CONDUCTOR	Km	75	35869.63	2690222.25	1974.95	148121.25	
8	SUPPLY AND DRAWING OF OVERHEAD ABC CONDUCTOR OF SIZE 3CX50+35 SQ.MM (XLPE INSULATED AREIAL BUNCHED CABLES HAVING INSULATED NEUTRAL) ON EXISTING ERECTED POLE/SUPPORT INCLUDING LAYING, JOINTING, STRINGING COMPLETE IN ALL RESPECT.	Km		89601.10	0	3081.54	0.00	
8.1	SUPPLY & FIXING OF SUSPENSION CLAMPS(NFC STANDARD) SUITABLE FOR ABC CABLE.	Set	500	227.70	113850	34.97	17485.00	
8.2	SUPPLY & FIXING OF DEAD END (NFC STANDARD) CLAMPS SUITABLE FOR ABC CABLE	Set	150	305.90	45885	34.97	5245.50	
8.3	SUPPLY & FIXING OF INSULATION PIERCING CONNECTOR (NFC STANDARD) TYPE-A SUITABLE FOR ABC CABLE	Set	3700	53.15	196655	17.54	64898.00	
8.4	SUPPLY & FIXING OF INSULATION PIERCING CONNECTOR (NFC STANDARD) TYPE-B & TYPE-C SUITABLE FOR ABC CABLE	Set	0	53.15	0	17.54	0.00	
9(i)	SUPPLY AND DRAWING OF OVERHEAD ABC CONDUCTOR (XLPE INSULATED AREIAL BUNCHED CABLES HAVING INSULATED NEUTRAL) ON EXISTING ERECTED POLE/SUPPORT INCLUDING LAYING, JOINTING, STRINGING COMPLETE IN ALL RESPECT.							
a	SIZE 3CX50+35 SQ.MM	KM	35.00	80805.58	2828195.3	3081.54	107853.90	
b.	SIZE 3CX16+25 SQ.MM	KM	12.00	38238.65	458863.8	2101.05	25212.60	
c.	SIZE 1CX25+25 SQ.MM	KM	17.00	23519.26	399827.42	1400.7	23811.90	
9(ii)	SUPPLY AND ERECTION OF GS STAY SET COMPLETE WITH 16 MM DIA., 1.8 METER LONG STAY ROD WITH ZINC COATED STEEL ANCHOR PLATE OF SIZE 300X300X4 MM WITH SQUARE HOLE OF SIZE 18X18 MM AT CENTRE INCLUDING STAY CLAMP INCLUDING EXCAVATION OF PIT SIZE 1.1 X 1.1 X 1.65 METER IN GROUND FOR ALL TYPE OF SOIL REFILLING WITH PROPER WATERING & RAMMING ETC., AS REQUIRED COMPLETE IN ALL RESPECT.							
a	IN ALL TYPES OF SOIL.	Nos.	150	590.18	88527	206.75	31012.50	
b	ORDINARY ROCK (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD.	Nos.	50	590.18	29509	305.24	15262.00	
c.	HARD ROCK/CC ROAD.	Nos.	50	590.18	29509	562.70	28135.00	

10	SUPPLY AND ERECTION OF GS STAY WIRE OF SIZE 7/10 SWG TIGHTENED THROUGH 11KV STRAIN INSULATOR ON EXISTING STAY SET & POLE ETC., AS REQUIRED COMPLETE IN ALL RESPECT.	MT	2.5	58075.00	145187.5	0.00	0.00	cost of erection included in erection cost of stay set at item no. 9
11	SUPPLY AND ERECTION OF ONE SET OF 2 NOS. OF GUARDING BRACKETS MADE OF MS CHANNEL 75X40 MM [ISM] (7.14 KG. PER METER) M.S.CHANNEL EACH 1.5 METER LONG , INCLUDING NECESSARY CLAMP, NUT & BOLTS ETC. (12.5 KG. APPROX. AS PER DRAWING) ON THE EXISTING POLES FOR GUARDING PURPOSES ON CROSSING, ALONG WITH CLAMPS, NUT & BOLTS WITH WASHERS ETC.	Set	10	1228.14	12281.43	36.76	367.60	
12	SUPPLY, DRAWING AND LAYING OF MESH USING GS WIRE OF 6 SWG ON THE GUARDING FOR CROSSING AS PER STANDARD OR REQUIRED AS PER LOCATION INCLUDING BINDING AS PER DRAWING FOR ROAD/P&T/POWER LINE CROSSING	MT	0	53965.91	0	5905.11	0.00	
13	SUPPLY AND FIXING OF LINE SPACER ON LT LINE WITH BARE CONDUCTOR	Nos.	0	19.00	0	12.10	0.00	
14	PROVIDING AND LAYING OF SERVICE LINE ARMoured XLPE CABLE WITH PROPER CLAMPING AT POLE AND WALL. THE CABLE SHALL BE TERMINATED BY USING SUITABLE CONNECTORS TO AB CABLE OR WITH BINDING ON D LOOP OF THE CONDUCTOR SERVICE MAINS THROUGH PUSH TO FIT SERVICE LINE BOX FIXED ON POLE & WITH SUITABLE LUGS AT METER BOX TERMINALS. THE WORK INCLUDES CONNECTING THE ARMOUR WIRE WITH METER BOX & EARTH OF DISTRIBUTION LINES WITH SUITABLE CLAMPS FOR PROPER EARTHING OF THE CABLE. THE ARMoured XLPE CABLE HOOKED TO SUPPORTING PIPE OR MS ANGLE THROUGH ANCHOR HOOK, MUST BE FIXED ON WALL AND WITH PROPER CLAMP UP TO METER BOX AT AN INTERVAL OF 1 METER. THE SAGGED ARMoured XLPE CABLE MUST HAVE MINIMUM GROUND CLEARANCE OF 16 FEET. (IN SUPPORTING OF CABLE ONLY SUITABLE CLAMPS SHALL BE USED AND NO WIRE SHOULD BE USED FOR SUCH PURPOSE).							
a.	FOR SINGLE PH - 2CX4 SQ.MM	Km	250	35213.92	8803480	3200.00	800000.00	
b.	FOR THREE PH - 4CX6 SQ.MM	Km	25	40872.15	1021803.75	4800.00	120000.00	
c.	FOR THREE PH - 4CX10 SQ.MM	Km	2.5	47892.85	119732.13	4800.00	12000.00	
d.	FOR THREE PH - 4CX16 SQ.MM	Km	3.5	62150.62	217527.17	5600.00	19600.00	
15	SUPPLY AND FIXING OF PUSH TO FIT TYPE SERVICE LINE SPRING LOADED MULTI CONNECTION DISTRIBUTION BOX ON THE LT LINE SUPPORTS/OTHER STRUCTURE AND TO CONNECT THE FOUR INCOMING PH/NEUTRAL WIRES USING MATCHING INSULATED CABLE AND ON THE OUTGOING SIDE OF EXISTING/NEW CONSUMER SERVICE LINES THROUGH BOX.							
a.	SINGLE PHASE SERVICE LINE BOX.	Nos.	100	2517.35	251735	92.15	9215.00	
b.	THREE PHASE SERVICE LINE BOX.	Nos.	20	5952.08	119041.6	106.70	2134.00	
16	SUPPLY AND FIXING OF 9 KVAR LT CAPACITORS IN THE FEEDER PILLAR BOX OF DT LOCATION/ON THE LT LINE SUPPORTS USING PROPER CLAMPS AND TO CONNECT THE THREE CAPACITOR TERMINALS USING MATCHING INSULATED CABLE TO THE LT PHASE WIRES.							
a.	AT DT LOCATIONS EXISTING/NEW DT	Nos.	0	749.80	0	366.80	0.00	
b.	AT DESIGNATED LT LINE SUPPORT	Nos.	0	749.80	0	366.80	0.00	
c.	AT DESIGNATED LT LINE SUPPORT6 KVAR	NOS.	12.00	492.97	5915.64	335.1	4021.20	
d.	AT DESIGNATED LT LINE SUPPORT12 KVAR	NOS.	105.00	878.6	92253	399.6	41958.00	
<b>G LT UG CABLE WORKS.(INCL. LT CABLE ROAD-CROSSINGS).</b>								
1	SUPPLY, LAYING, ENERGISATION & COMMISSIONING OF LT UNDERGROUND CABLE FOR WORKING VOLTAGE OF 1.1KV, ALUMINIUM CONDUCTOR, XLPE INSULATED ARMoured CABLE AS PER IE RULES AND METHODS OF IS:1255/JVVNL STANDARDS INCLUDING EXCAVATION OF 30CMX120 CM DEEP TRENCH IN THE LAND SPECIFIED BELOW, 25 CM. THICK UNDER LAYER OF SAND, "A" CLASS BRICK COVERING, REFILLING OF EARTH IN THE REMAINING PORTION, AS PER LATEST SPECIFICATIONS AND DESIGN & DRAWING FIXING WITH CABLE CLAMPS, MAKING CONNECTIONS/ JUMPERS BY ALUMINUM LUGS/ P.G.CLAMPS OF REQUIRED SIZE ON L.V. SIDE OF DISTRIBUTION TRANSFORMER/ LT DISTRIBUTION MAINS ON 1 END AND WITH ICTP SWITCH/FUSE UNIT/PILLAR BOX ON THE OTHER END LUGS SHOULD BE CRIMPED WITH CRIMPING TOOL LUGS/P.G.CLAMPS AS PER DRAWING APPROVED BY NIGAM). [ROAD CROSSING OF CABLE SHALL BE IN DOUBLE WALLED CORRUGATED PIPE OF 200 MM DIAMETER]							
1.1	CABLE OF SIZE 4X300SQ.MM							
a	IN DWC PIPE OF DIA.200 MM FOR CABLE OF SIZE 4X300 SQ.MM at Road crossing or wherever it is required.	km	0	834470.80	0	267600.00	0.00	
b	IN BRICKS AS PER STANDARD (Kachha road)	km	0	834470.80	0	110200.00	0.00	
c	IN BRICKS AS PER STANDARD (Pakka road)	km	0	834470.80	0	144600.00	0.00	
d	Through manual trench less (Bogie) IN SOIL	km	0	834470.80	0	123750.00	0.00	
e	BY HDD VERMIER (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD	km	0	834470.80	0	402930.00	0.00	
1.2	CABLE OF SIZE 4X185SQ.MM							
a	IN DWC PIPE OF DIA.200 MM FOR CABLE OF SIZE 4X185 SQ.MM at Road crossing or wherever it is required.	km	2	544824.57	1089649.14	257600.00	515200.00	
b	IN BRICKS AS PER STANDARD (Kachha road)	km	3	544824.57	1634473.71	100200.00	300600.00	
c	IN BRICKS AS PER STANDARD (Pakka road)	km	2	544824.57	1089649.14	134600.00	269200.00	
d	Through manual trench less (Bogie) IN SOIL	km	0	544824.57	0	123750.00	0.00	
e	BY HDD VERMIER (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD	km	8	544824.57	4358596.56	402930.00	3223440.00	
1.3	CABLE OF SIZE 4X120SQ.MM							
a	IN DWC PIPE OF DIA.200 MM FOR CABLE OF SIZE 4X120 SQ.MM at Road crossing or wherever it is required.	km	20	316701.69	6334033.8	257600.00	5152000.00	
b	IN BRICKS AS PER STANDARD (Kachha road)	km	0	316701.69	0	100200.00	0.00	
c	IN BRICKS AS PER STANDARD (Pakka road)	km	0	316701.69	0	134600.00	0.00	
d	Through manual trench less (Bogie) IN SOIL	km	0	316701.69	0	123750.00	0.00	
e	BY HDD VERMIER (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD	km	0	316701.69	0	402930.00	0.00	



2	SUPPLY & INSTALLATION OF LT SUPPLY DISTRIBUTION BOX & CHANGE OVER FOR WITH STANDUNDERGROUND SERVICE LINE AS PER SPECIFICATION OF NIGAM. EACH BASE SHOULD BE GROUTED INCLUDING EXCAVATION, BRICKS, SAND, CEMENT MASONARY OF SIZE 4"X3"X10" AND 3' IN GROUND & 1.5 ' ABOVE ROAD LEVEL WITH MUFFING TO SUPPORT & MOUNTING THE PILLAR. THE MASONARY WILL HAVE 4"X4" OPENING 2" BELOW GROUND LEVEL TWO IN REAR SIDE & ONE EACH IN THE REMAINING SIDES TO FACILITATE ENTRY & EXIT OF INCOMING & OUT GOING CABLES. EARTHING OF THE PILLAR SHALL BE CONNECTED TO TWO SIDES OF DISTRIBUTION BOX WITH 7/8 SWG GI WIRE & LUGS DULY BOLTED ON THE PLACE MEANT FOR. XLPE CABLES INSIDE THE BOX SHALL BE FIXED WITH CLAMPS MAKING CONNECTIONS /JUMPERS BY ALUMINIUM. LUGS OF REQUIRED SIZE ON LT DISTRIBUTION MAINS ON ONE END & WITH MCB/ WITH ISOLATOR ON THE OTHER END. LUGS SHOULD BE CRIMPED WITH CRIMPING TOOLS INCLUDING COST OF LUGS & NUTS, BOLTS ETC.							
a.	LT SUPPLY DISTRIBUTIONBOX 100 AMP. SUITABLE FOR SERVICE LINE FOR CONSUMER DISTRIBUTION AS PER NIGAM DRAWING/SPECIFICATIONS	No.	150	17106.20	2565930	1498.88	224832.00	
b.	LT SUPPLY DISTRIBUTION BOX WITH CHANGE OVER SUITABLE FOR MAIN SERVICE LINE AS PER NIGAM DRAWING/SPECIFICATIONS	No.	10	16119.00	161190	1498.88	14988.80	
c.	ONE EARTHING SET COMPRISING OF HOT DIPPED GI EARTHING ROD 20 MM DIA LENGTH OF 3 MTR WITH RIDER HOT DIPPED GI STRIP 30X4 MM LENGTH APPROX.3 .0 MTR.	No.	32	451.27	14440.64	227.12	7267.84	
3	PROVIDING AND LAYING OF SERVICE LINE ARMoured XLPE CABLE INCLUDING EXCAVATION OF 30CMX120CM DEEP TRENCH IN LAND SPECIFIED BELOW AND REFILLING SOIL IN THE REMAINING PORTION WITH PROPER CONNECTION TO MCCB FIXED IN LT DISTRIBUTION BOX TO CONSUMER METER LOCATION THROUGH UNDERGROUND TRENCH FROM SERVICE MAINS IN LT DISTRIBUTION BOX TO METER BOX TERMINALS USING LUGS/CRIMPING PINS AT BOTH ENDS. THE ARMoured XLPE CABLE SHALL BE LAID IN DWC PIPE TO CROSS DRAINAGE/NALIS ETC. & WHERE CABLE IS OPEN NEAR CONSUMER END. IT MUST BE FIXED ON WALL THROUGH ANCHOR HOOK AND WITH PROPER CLAMP UP TO METER BOX AT AN INTERVAL OF 1 METER. (DWC PIPE BE USED AT LOCATIONS WHERE "NALIS/DRANAGE" IS CROSSED OR CABLE IS OPEN NEAR CONSUMER END TO COVER THE CABLE- REFER "H" -SCHEDULE FOR THE COST OF PIPE).							
a	FOR SINGLE PH - 2CX4 SQ.MM (kachha)	Km	6	35213.92	211283.52	12000.00	72000.00	
b	FOR SINGLE PH - 2CX4 SQ.MM (pacca)	Km	10	35213.92	352139.2	46400.00	464000.00	
c	FOR THREE PH - 4CX10 SQ.MM(kachha)	Km	2	47892.85	95785.7	15000.00	30000.00	
d	FOR THREE PH - 4CX10 SQ.MM(pacca)	Km	2	47892.85	95785.7	49400.00	98800.00	
e	FOR THREE PH - 4CX16 SQ.MM(kachha)	Km	0	62150.62	0	15000.00	0.00	
f	FOR THREE PH - 4CX16 SQ.MM(pacca)	Km	0	62150.62	0	49400.00	0.00	
<b>H REPLACEMENT OF ENERGY METERS:</b>								
1	FIXING OF METER CUM METER BOX(COMPLETE UNIT "PUT FIT TYPE") AT THE PREMISES OF EXISTING/NEW CONSUMERS WITH 4 NOS. ANCHOR FASTNERS OF RUST PROOF SIZE M-6X50 MM ON THE WALL AS PER THE POSITION OF THE HOLES ALREADY PROVIDED ON THE METER BOX. THE METER MUST BE HOUSED PERFECTLY VERTICAL/PLUMB LINE. ANCHOR FASTENERS ARE TO BE PROVIDED /SUPPLIED BY THE CONTRACTOR(INCLUDING SAFE CARRIAGE OF PUSH FIT TYPE UNIT FROM SUB-DIVISIONAL STORE TO CONSUMER SITE & REMOVED METER AND METER BOX FROM CONSUMER SITE TO SUB-DIVISIONAL STORE, IF REQUIRED.)(ENERGY METERS WITH BOX SHALL BE PROVIDED BY THE PURCHASER)							(Energy meters with box shall be provided by the Nigam)
a.	SINGLE PHASE METER WITH BOX	Nos.	10000	0.00	0	51.50	515000.00	
b.	THREE PHASE METER WITH BOX	Nos.	1000	0.00	0	70.80	70800.00	
2	SUPPLY , FIXING AND CONNECTING THE THREE PHASE LT CT METERS WITH , LT CTS OF SUITABLE RATIO TO BE FIXED IN BOX AS PER GOVERNING SPECIFICATIONS AT THE DESIGNATED LOCATION FOR PROVIDING METERING FOR DISTRIBUTION TRANSFORMER ALONG THE DP STRUCTURE. AND MAKING INCOMING CONNECTION FROM LT BUSHING OF DT WITH CABLE & OUTGOING TO LT LINE AS PER SPECIFICATION.	Nos.		4950.75	0	605.40	0.00	
<b>I RETREIVAL OF MATERIAL (EXCEPT OF RMU NETWORK)</b>								
<b>I-1 11 KV MATERIAL</b>								
1	TOWER 42'/36' LONG	Nos	0	0.00	0	835.20	0.00	
2	PCC POLE 9'/8' MTR LONG	Nos	502	0.00	0	240.16	120560.32	
3	RS JOISTS	Nos	0	0.00	0	700.31	0.00	
4	MS RAILS	Nos	10	0.00	0	634.03	6340.30	
5	11 KV V-CROSS ARM SET	Nos	175	0.00	0	18.08	3164.00	
6	LT CROSS SET 4' LONG	Nos	200	0.00	0	7.06	1412.00	
7	DISC INSULATOR WITH H/W	Nos	40	0.00	0	9.07	362.80	
8	11 KV PIN INSULATOR WITH PIN	Nos	500	0.00	0	4.03	2015.00	
9	ACSR PANTHER CONDUCTOR	Km	0	0.00	0	3249.29	0.00	
10	ACSR DOG CONDUCTOR	Km	0	0.00	0	1184.97	0.00	
11	ACSR RACCOON CONDUCTOR	Km	0	0.00	0	1094.63	0.00	
12	ACSR WEASEL/SQUIRE/COPPER CONDUCTOR	Km	45	0.00	0	591.44	26614.80	
13	GI WIRE 8 SWG	Km	2	0.00	0	347.43	694.86	
14	GI EARTH WIRE	Km	0	0.00	0	347.43	0.00	
15	CHANNEL CROSS ARM	Nos	50	0.00	0	13.04	652.00	
16	MS NUT & BOLT	Kg	100	0.00	0	1.20	120.00	
<b>I-2 LT MATERIAL</b>								
1	PCC POLE 8' MTR LONG	Nos	100	0.00	0	157.75	15775.00	
2	RS JOISTS	Nos	10	0.00	0	700.31	7003.10	
3	MS RAILS	Nos	50	0.00	0	634.03	31701.50	
4	LT CROSS SET 4' LONG	Nos	100	0.00	0	8.06	806.00	
5	LT CROSS SET 2' LONG	Nos	400	0.00	0	7.06	2824.00	
6	LT SHACKLE INSULATOR WITH H/W	Nos	50	0.00	0	4.03	201.50	
7	LT PIN INSULATOR WITH PIN	Nos	350	0.00	0	2.52	882.00	
8	AAC/ SQUEREL/WEASEL/AUNTCONDUCTOR	Km	20	0.00	0	591.44	11828.88	



9	COPPER CONDUCTOR	Km	0	0.00	0	347.43	0.00	
10	AB CABLE	Km	10	0.00	0	1848.92	18489.24	
11	PVC CABLE 4CX10 SQMM	Km	20	0.00	0	2880.00	57600.00	
12	PVC CABLE 2CX4/6 SQMM	Km	160	0.00	0	1920.00	307200.00	
13	GI WIRE 6/8 SWG	Km	10	0.00	0	347.43	3474.30	
14	LT STAY SET	Nos	50	0.00	0	98.09	4904.70	
15	LT STAY WIRE	MT	6	0.00	0	18.95	113.70	
16	MS NUT & BOLT	Kg	150	0.00	0	1.20	180.00	
17	LT CAPACITORS 5 KVAR	Nos	0	0.00	0	50.00	0.00	
	<b>TOTAL COST (LT+11 KV)</b>					<b>89279612</b>	<b>24182573</b>	
<b>J</b>	<b>33 KV SUB-STATION WORK INCLUDING 11 KV CAPACITOR BANK AND 11 KV BAY-EXTENSION.</b>							
1	LEVELLING OF LAND OF THE 33/11 KV S/S AREA AND CONSTRUCTION OF 'D' TYPE CABLE TRENCHES-360 MM WIDE COMPRISING OF 300 MM THICK STONE MASONARY WALLS IN C.M 1:8 OVER THE BASE CONCRETE OF CC MIX 1:5:10 - 100 MM THICKNESS 1160 WIDTH INCLUDING EXCAVATION IN ALL SORTS OF SOILS. TRENCHES TO HAVE MS ANGLES ISA 45X30X5 MM AT EVERY ONE METRE C/C SPACING AND LOCATED AT 150 MM FROM BASE ALONGWITH 25 MM THICK CC 1:2:4 FLOORING IN REQUIRED SLOPE. INSIDE WALL TO HAVE CEMENT POINTING OF GRADE 1:3 AND OUT SIDE WALL TO BE FINISHED BY CEMENT PLASTER 1:6 GRADE IN 20 MM THICKNESS AND 150 MM WIDTH. IT IS TO HAVE THE 50 MM IN PRECAST COPING ON MASONARY TOP- 250 MM WIDE COMPRISING OF CC 1:2:4 WITH GROOVE TO ACCOMMODATE CABLE TRENCH COVERS.							
a.	LEVELLING OF AREA	SQ.MTR.	1700.00	0	0	5.85	9945.00	
b.	CONSTRUCTION OF TRENCHES.(RUNNING MTR)	RM	35.00	0	0	1265.54	44293.90	
2	SUPPLY & ERECTION OF 5.8/6.0 METER LONG RS JOIST 116 X 100 MM AND ALIGNMENT INCLUDING EXCAVATION OF PIT FOR SIZE 0.9X0.9X1 METRE & 30 CM DIA PERFERRED IN CEMENT CONCERTEING M-10 GRADE ( 1:3:6 ONE CEMENT THREE COARSE, SIX GRADED STONE AGGREGATE) FOR 60 CM LENGTH.	NO.	0.00	5085.3	0	1559.64	0.00	
3	SUPPLY AND ERECTION OF 7.5/8.0 MTR. "AB" TYPE SUB-STATION STRUCTURE FABRICATED FROM M.S.ANGLE 65 X 65 X 6 MM WITH BRACING OF M.S. FLAT 50 X 6 MM INCLUDING EXCAVATION OF PITSO F SIZE 1X1X1.25 METRE ( AS PER SPECIFICATION & DRAWING APPROVED BY NIGAM) STEEL WT. 350 KG EACH STRUCTURE.	NO.	10.00	16749.44	167494.43	2801.33	28013.30	
4	SUPPLY AND ERECTION OF 6.0 MTR. "AB" TYPE SUB-STATION STRUCTURE FABRICATED FROM M.S.ANGLE 65 X 65 X 6 MM WITH BRACING OF M.S. FLAT 50 X 6 MM INCLUDING EXCAVATION OF PITS OF SIZE 0.9X0.9X1 METRE( AS PER SPECIFICATION & DRAWING APPROVED BY NIGAM) STEEL WT.280 KG EACH STRUCTURE.	NO.	13.00	13399.554	174194.2	1981.32	25757.16	
5	SUPPLY AND ERECTION OF "C" TYPE BEAM FABRICATED FROM ISA M.S.ANGLE 65 X 65 X 6 MM WITH BRACING OF M.S. FLAT 50 X 6 MM ON "AB" AND AB STRUCTURE WITH NUT & BOLT 5" DIA ( AS PER SPECIFICATION & DRAWING APPROVED BY NIGAM)	NO.	12.00	9331.8323	111981.99	714.15	8569.80	
a.	BEAM FOR 33 KV BUS STRUCTURE - STEEL WT. APPX. 141 KG. EACH STRUCTURE.	NO.	12.00	6747.6326	80971.59	714.15	8569.80	
b.	BEAM FOR 11 KV BUS STRUCTURE - STEEL WT. APPX. 102 KG. EACH STRUCTURE.	NO.	12.00	4881.2661	58575.19	714.15	8569.80	
6(i)	SUPPLY AND ERECTION OF 9 MTR PCC POLE (400/200 KG) ( AS PER SPECIFICATION & DRAWING APPROVED BY NIGAM)							
a.	FOR 33 KV BUS STRUCTURE -9 MTR PCC POLE (400 KG)	NO.	0.00	2218.06	0	393.75	0.00	
b.	FOR 11 KV BUS STRUCTURE -9 MTR PCC POLE (200 KG)	NO.	0.00	1950.98	0	463.26	0.00	
6	SUPPLY & FIXING OF DOUBLE BREAK WITHOUT EB ISOLATOR ON EXISTING BRACKET COMPLETE IN ALL RESPECT AS REQUIRED INCLUDING HARDWARE NUT, BOLTS & WASHER ETC.							
a.	33KV (WITH 18 X 24 KV POST INSULATOR ) 800 AMP.-	SET	3.00	25017.25	75051.75	808.88	2426.64	
b.	11KV ( WITH 9 X 12 KV POST INSULATOR ) 400 AMP.	SET	5.00	11094.8	55474	601.87	3009.35	
7	SUPPLY & FIXING OF LIGHTENING ARRESTORS ON THE EXISTING BRACKETS IN ALL RESPECT AS REQUIRED INCLUDING HARDWARE, NUT, BOLT & WASHER ETC.							
a.	33KV SUB-STATION TYPE (30 KV 10 KA STATION CLASS, 1 SET = 3 NOS.)	SET	9.00	11506.35	103557.15	368.47	3316.23	
b.	11KV SUB-STATION TYPE (9 KV 10 KA STATION CLASS, 1 SET = 3 NOS.)	SET	15.00	6795.21	101928.15	315.12	4726.80	
8	CONSTN. OF 33/11KV TRANSFORMERS PLATFORM 2.4 X 2.4X 2.0 MTRS.(OR AS PER EQUIPMENT MANUFACTURER'S FOUNDATION DETAILS) INCLUDING EXCAVATION IN ALL TYPE OF SOIL UP TO THE DEPTH OF 900 MM, FOUNDATION CONCRETE IN C.C. - 1 : 5 :10 FOR 150 MM THICKNESS, STONE MASONARY IN CEMENT MORTAR OF MIX. 1:8 WITH TOP OF THE PLATE FORM FINISHED WITH 100 MM LAYER OF C.C. 1:2:4 ALONGWITH 2 NOS. M.S. RAILS 90 POUNDS OF 2.4 MTR. LENGTH EACH, ALONGWITH CEMENT PLASTER - 20 MM THICK OF MIX RATIO 1:6, ON ALL THE EXPOSED SURFACES OF THE PLATE FORM - COMPLETE IN ALL RESPECT.	NO.	2.00	0	0	16125.24	32250.48	
9	CONSTN. OF 33KV VCB PLATE FORM 1.5 X 1.5 X 2.0 MTRS.(OR AS PER EQUIPMENT MAQNUFACTURER'S FOUNDATION DETAILS) INCLUDING EXCAVATION IN ALL TYPE OF SOIL UP TO THE DEPTH OF 900 MM, FOUNDATION CONCRETE IN C.C. - 1 : 5 :10 FOR 150 MM THICKNESS, STONE MASONARY IN CEMENT MORTAR OF MIX. 1:8 WITH TOP OF THE PLATE FORM FINISHED WITH 100 MM LAYER OF C.C. 1:2:4 INCLUDING FIXING OF FOUNDATION BOLTS ALONGWITH CEMENT PLASTER - 20 MM THICK OF MIX RATIO 1:6, ON ALL THE EXPOSED SURFACES OF THE PLATE FORM - COMPLETE IN ALL RESPECT.	CUM	2.00	0	1679.58	6298.92	12597.84	cost of material included in erection cost
10	CONSTN. OF 12KV VCB PLATE FORM 3.0 X 1.3 X 1.3 MTRS. (OR AS PER EQUIPMENT MANUFACTUERER'S FOUNDATION DETAILS) INCLUDING EXCAVATION IN ALL TYPE OF SOIL UP TO THE DEPTH OF 900 MM, FOUNDATION CONCRETE IN C.C. - 1 : 5 :10 FOR 150 MM THICKNESS, BRICK MASONARY IN CEMENT MORTAR OF MIX. 1:8 WITH TOP OF THE PLATE FORM FINISHED WITH 100 MM LAYER OF C.C. 1:2:4 INCLUDING FIXING OF FOUNDATION BOLTS AND CEMENT PLASTER - 20 MM THICK OF MIX RATIO 1:6, ON ALL THE EXPOSED SURFACES OF THE PLATE FORM - COMPLETE IN ALL RESPECT.	CUM	4.00	0	1679.58	7111	28444.00	cost of material included in erection cost

11	SUPPLY & LAYING OF EARTH MESH AT SUB-STATION AS PER APPROVED MAP & DESIGN USING MS FLAT 50 X 6 MM & MS ROD 20 MM DIA INCLUDING LAYING OF FLAT AT THE DEPTH 0.65 MTR & MS ROD AT 3 METRE DEPTH WELDING & JOINTING AT JOINTS, STRUCTURES & EQUIPMENTS ETC.[DESIGN OF EARTH MESH FOR FUALT LEVEL OF APPX. 120 MVA AT SOIL RESITIVITY OF 25 OHM-MTRS.].						
a.	NOS. OF WORK LOCATIONS(15 NEW SUB-STATION PLUS 10 BAY EXTENSION LOCATIONS)	NOS.	0.00	0	0	8739.84	0.00
b.	QTY OF M.S.FLAT IN MTR	MTR.	900.00	115.24	103716	47.63	42867.00
12	SUPPLY & INSLATION OF HD GALVANISED M.S.PIPE TYPE EARTHING SET MADE UP OF M.S.PIPE ALONGWITH EARTHING CLAMP & 8 SWG EARTH WIRE (FOR EARTHING OF MESH) AS PER GOVERNING SPECIFICATION.	NOS.	0.00	834.91	0	3832.5	0.00
13	SUPPLY & INSLATION OF HD GALVANISED M.S.ROD TYPE EARTHING SET MADE UP OF M.S.ROD 20 MM DIA. 3 METER LONG ALONGWITH EARTHING CLAMP & 8 SWG EARTH WIRE (FOR EARTHING OF MESH) DRIVEN BY MECHANICAL MEANS INTO EARTH HOLE (MADE BY AUGERING) AND WELDING THE MS ROD.	NOS.	10.00	451.27	4512.7	128.94	1289.40
14	PROVIDING, LAYING, TESTING TERMINATION OF CONTROL CABLE 1100 VOLTS PVC INSULATED INCLUDING SUPPLY AND INSTALLATION OF FERRULES TO DESIGN VARIOUS CORES OF CONTROL CABLES BY TERMINAL NO. OF IDENTIFICATION INCLUDING UTILISATION OF CABLE GLAND.						
a.	2 X 2.5 SQ.MM.	mtr	1000.00	32.45	32450	9.1	9100.00
b.	4 X 4 SQ.MM.	mtr	500.00	83.82	41910	13.7	6850.00
c.	12 X 2.5 SQ.MM.	mtr	500.00	181.24	90620	16.7	8350.00
15	SUPPLY AND FIXING OF 11KV PORCELAIN DISC INSULATORS (B&S) TYPE ON EXISTING BRACKETS COMPLETE INCLUDING ALL ACCESSORIES LIKE HARDWARES, FITTING NUT, BOLT & WASHER ETC.						
a.	ONE H/W WITH 3 DISC INSULATOR ( 120 KN) FOR PANTHER	SET	24.00	1409.73	33833.52	31.82	763.68
b.	ONE H/W WITH 2 DISC INSULATOR ( 45KN) FOR DOG	SET	27.00	896.09	24194.43	22.79	615.33
16	Supply and laying / stringing of Bus bar with ACSR panther and jumper connection using required accessories.				0		0.00
a.	ACSR Panther Conductor	Mtr.	250.00	145.287	36321.75	20.80	5200.00
b.	PG Clamps for Panther conductor	Nos.	21.00	165.55	3476.55	0.00	0.00
c.	T-Clamps for Panther Conductor	Nos.	10.00	237.76	2377.6	0.00	0.00
d.	33 kV Insulating String with B&S Type, 45 KN Disc insulator for 33 kV Bus having 2 sections ( 1 Set of 1HW, 3 Discs)	Set	8.00	1144.61	9156.88	31.82	254.56
e.	11 kV Insulating String with B&S Type, 45 KN Disc insulator for 11 kV Bus having 2 sections ( 1 Set of 1HW, 2 Discs)	Set	15.00	896.09	13441.35	22.79	341.85
17	SUPPLY AND PROVIDING OF PAINTING TWO COATS EACH OF RED OXIDE & THEN ALUMINIUM PAINT OF APPROVED BRAND (ICI,ASIAN,BERGER OR EQUIVT) PAINT TO BE GIVEN AND EVEN SURFACE ON METAL SHEET [ 2 OR MORE COAT ON NEW WORKS ]	2. MTR EAC	185.00	0	0	55	10175.00
18	SUPPLY & ERECTION OF VCB COMPLETE WITH ACCESSORIES INCLUDING USE OF SPECIAL TOOLS & CONDUCTING ALL PRE COMMISSIONING TESTS BEFORE ENERGISATION ETC. COMPLETE IN ALL RESPECT WITH ERECTION& GROUTING OF STRUCTURE (EXCLUDING CIVIL WORKS).						supply cost included in erection cost Provided by Nigam
a.	33 KV VCB/ SF-6 BREAKER	NOS.	2.00	0	0	4053	8106.00
b.	11 KV VCB	NOS.	4.00	0	0	4053	16212.00
19	SUPPLY, INSTALLATION, TESTING & COMMISSING OF 33 KV CONTROL & RELAY PANEL (TRANSFORMER TYPE- 1NO.&FEEDER TYPE-2 NO. AT EACH S/S) INCLUDING CHECKING OF WIRING AND CONDUCTING ALL PRE COMMISSIONING TESTS BEFORE ENERGISATION, SATISFACTORY OPERATION OF ALL EQUIPMENT EXISTING THEREOF. (THE RELAY WILL BE TESTED BY DISCOM).						
a.	TRANSFORMER TYPE	NOS.	1.00	158830.73	158830.73	1363.2	1363.20
b.	FEEDER TYPE	NOS.	1.00	124559.1	124559.1	1363.2	1363.20
20	SUPPLY AND INSTALLATION OF 33KV CURRENT / POTENTIAL TRANSFORMERS ON SUPPORTING STRUCTURE INCLUDING CHECKING OF WIRING AND CONDUCTING ALL PRE COMMISSIONING TESTS BEFORE ENERGISATION, SATISFACTORY OPERATION OF ALL EQUIPMENT EXISTING THEREOF.						
a.	33KV CT 400-200-100/5-5A	NOS.	0.00	31141.66	0	838	0.00
b.	33 KV PT	NOS.	0.00	19303.9	0	838	0.00
21	SUPPLY, LAYING, ENERGISATION & COMMISSIONING OF UNDERGROUND CABLE FOR WORKING VOLTAGE OF 11KV, 33KV ALUMINIUM CONDUCTOR CABLE XLPE ARMOURED IN EXCAVATED TRENCH AS PER IE RULES AND METHODS OF IS:1255, 25 CM. THICK UNDER LAYER OF SAND, II CLASS BRICK COVERING, REFILLING OF EARTH IN THE REMAINING PORTION, MAKING NECESSARY CONNECTION INCLUDING TESTING ETC. AS REQUIRED.						
a.	33KV CABLE 300 SQ.MM.	mtr	400.00	1409.88	563952	185.72	74288.00
b.	11 KV CABLE 300 SQ.MM.	mtr	1000.00	902.87	902870	167.56	167560.00
22	SUPPLY, LAYING, ENERGISATION & COMMISSIONING OF H.S.OUTDOOR TYPE TERMINATION KITS FOR WORKING VOLTAGE OF 11KV, 33KV ALUMINIUM CONDUCTOR CABLE XLPE ARMOURED AS PER IE RULES MAKING NECESSARY CONNECTION INCLUDING TESTING ETC. AS REQUIRED.						
a.	FOR 33 KV XLPE 3X300 SQ.MM -END TERMINATION	NOS.	2.00	4010.52	8021.04	1079.1	2158.20
b.	FOR 33 KV XLPE 3X300 SQ.MM -SRATIGHT	NOS.	2.00	12990.33	25980.66	2280.76	4561.52
c.	FOR 11 KV XLPE 3X300 SQ.MM-END TERMINATION	NOS.	6.00	1393.94	8363.64	816.44	4898.64
23	SAFE LOADING OF 33/11 KV POWERTRANSFORMERS FROM STORES WITHIN 10 KMS AND UNLOADING , INSTALLATION AT DESIGNATED SUB-STATION SITE. ( TESTING & COMMISSIONING SHALL BE CARRIED BY CONCERNED M&P WING) (POWER TRANSFORMERS SHALL BE PROVIDED BY THE PURCHASER).						TO BE PROVIDED BY THE PURCHASER
a.	8.00 MVA	NOS.	0.00	0	0	10343.68	0.00
b.	5.00 MVA	NOS.	1.00	0	0	10343.68	10343.68

24	<b>SAFE LOADING AND UN-LOADING AND CARRIAGE OF 33/11 KV POWERTRANSFORMERS FROM SUB-STATION AND DEPOSIT IN STORES WITHIN 10 KMS.</b>							
a.	5.00 MVA	NOS.	0.00	0	0	10343.68	0.00	
b.	3.15 MVA	NOS.	0.00	0	0	8157.77	0.00	
25	<b>Supply and erection of misc. structures for sub-station equipments fabricated from M.S.Channel 100 x 50 x 6 mm / M.S.Angle 65 x 65 x 6 mm with bracing of M.S. Flat 50 x 6 mm as per specification &amp; drawing approved by Nigam).</b>							
a.	Fabrication of structure	MT	0.00	48515.74	0	3350.30	0.00	
b.	Fixing of structure and equipments	MT	0.00	0	0	1266.20	0.00	
c.	Excavations works	CUM	0.00	0	0	52.19	0.00	
d.	Cement Concreting	CUM	0.00	0	0	1606.50	0.00	
26	SUPPLY, ERECTION, CONNECTION, TESTING AND COMMISSIONING OF 110 VOLT BATTERY CHARGERINCLUDING CHECKING OPERATION FLOAT CHARGING & BOOST CHARGING.	NOS.	0.00	57765.42	0	838	0.00	
27	SUPPLY AND ERECTION OF 110 VOLTS D.C.BATTERY UNIT ASSEMBLY ON WOODEN STAND/ MOUNTING STRUCTURE, CONNECTIONS, CHARGING/ DISCHARGING /CHARGING AS PER PRESCRIBED DUTY CYCLE OF MANUFACTURER INCLUDING ALL REQUIRED CONNECTION/ WIRING FROM BATTERY SET TO BATTERY CHARGER AND A.C. MAINS COMPLETE IN ALL RESPECT.	SET	0.00	156677.33	0	0	0.00	cost of erectionl included in item no. 26
28	SUPPLY , FABRICATION AND FIXING OF MS FLAT 50X10MM(COLD BENDING) BLACK CLAMP AND STAY CLAMP FOR CROSS ARMS, STAY, EARTH AND GUARDING BRACKET OF MS FLAT INCLUDING CUTTING, WELDING DRILLING OF HOLES IN ALL RESPECT AS PER DESIGN AND DRAWING.	M.T.	0.00	48831.48	0	3000	0.00	
29	Safe carriage of 63KVA, 11/0.4 KV distribution transformer including loading/ unloading within 10 Km from stores Installation, testing & commissioning.	No.	1.00	0	0	847.43	847.43	transformer TO BE PROVIDED BY THE PURCHASER
a.	Providing & Fixing of Sub-station structure/ Base Channel (Apprx unit Wt. 284 kg.).	set	0.00	13778.26	0	99.48	0.00	
b.	ACSR Dog Conductor (20 mtr for each SS).	mtr	0.00	52.92	0	0.00	0.00	
c.	PG Clamps for Dog conductor	Nos.	0.00	135.67	0	0.00	0.00	cost of erection in included in item no. 29
30	<b>SUPPLY, ASSEMBLY &amp; INSTALLATION OF 200 AMP LT PILLAR BOX AND HG FUSE SET AS PER SPECIFICATION OF NIGAM.</b>							
a.	200 AMP LT PILLAR BOX WITH BRICK MASONARY USING CEMENT MORTAR OF RATIO 1: 6. INCLUDING SUPPLY OF BRICK & CEMENT MORTAR BY THE CONTRACTOR.	SET	0.00	22586.89	0	2155.38	0.00	
b.	11KV HORN GAP FUSE SET (CONSISTING OF 3 LIMBS) WITH 6 NOS. 24 KV POST INSULATOR ON ERECTED STRUCTURE AS PER DESIGN / DRAWING COMPLETE IN ALL RESPECT AND JUMPERING ON BOTH ENDS WITH SUITABLE CLAMPS FOR CONNECTION WITH THE SYSTEM INCLUDING NUT & BOLTS & OTHER ACCESSORIES ETC.	SET	3.00	4306.67	12920.01	301.46	904.38	
c.	Supply and Assembly, installation & commisioning of 11 kv with (9 x 12 kv Post Insulator) 400 Amp. Double break without EB GO Isolator switch set ( consisting of 3 limbs) on erected structure.	Set	0.00	11094.8	0	586.81	0.00	
31	PROVIDING OF LT PVC CABLE OF SIZE 3.5C X 70 SQMM UNARMoured CABLE, LAYING AND FIXING WITH CABLE CLAMPS, MAKING CONNECTIONS/ JUMPERS BY ALUMINUM LUGS/ P.G.CLAMPS OF REQUIRED SIZE ON L.V. SIDE OF DISTRIBUTION TRANSFORMER/ LT DISTRIBUTION MAINS ON 1 END AND WITH ICTP SWITCH/FUSE UNIT/PILLAR BOX ON THE OTHER END LUGS SHOULD BE CRIMPED WITH CRIMPING TOOLS.	mtr	10.00	178.25	1782.5	22.8	228.00	
32	<b>SUPPLY,TRANSPORTATION, ERECTION, TESTING &amp; COMMISSIONING OF 2.0 MVAR CAPACITOR BANK ALONGWITH IT'S ASSOCIATED EQUIPEMENTS.</b>							
32.1	Earth work for structures of Capacitor bank & its associated equipments.							supply cost included in erection cost
a.	Excavation for foundation pit up to 0.75 meter (maximum).	CUM	0.00	0	0	52.19	0.00	
b.	Providing & Laying Cement concrete with Centering & Shuttering with plywood or steel sheet (up to 0.1m).	CUM	0.00	0	0	1606.50	0.00	
c.	Providing & Laying Cement concrete with Centering & Shuttering with plywood or steel sheet (up to 0.9 m).	CUM	0.00	0	0	1606.50	0.00	
32.2	<b>EARTH MESH WORK:</b>							
a.	EXCAVATION OF TRENCHES 0.3 M WIDE IN FOLLOWING TYPE OF SOIL/ROCK FOR LAYING EARTH MESH & RISER, ITS BACK FILLING WITH SOIL ONLY & COMPACTION AFTER LAYING EARTH MESH (M.S. STRIP / ROUND):	CUM	0.00	0	0	52.19	0.00	
b.	PROVIDING & LAYING OF EARTHMESH (AS PER DRAWING) OF M.S. FLAT OF SIZE 60 X 5 MM INCLUDING STRAIGHTENING, CUTTING, FABRICATION, WELDING OF LAP/CROSS JOINTS, FABRICATION OF RISER (MS FLAT 60 X 5 MM), THEIR BENDING, CUTTING, DRILLING & WELDING TO MESH, STRUCTURES, EQUIPMENTS.	MTR	0.00	0	0	17.43	0.00	
c.	COATING OF ALL TYPE OF MS FLAT/ROUND JOINTS WITH BLACK BITUMEN PAINT AND THEN COVERING WITH BLACK BITUMENT IMPREGNATED TAP INCLUDING MATERIAL.	MTR	0.00	0	0	26.25	0.00	
d.	PREPARING & FIXING OF 3-METER LONG EARTH ELECTRODES OF MS ROUND OF 25 MM DIA, ITS DRIVING UP TO 3.0 METER DEPTH (MAX.) (BELOW MS FLAT) BY MEANS OF HAMMERING/ DRILLING & MAKING EARTH GOOD IN ANY TYPE OF SOIL.	NOS.	0.00	451.27	0	128.94	0.00	
e.	SUPPLY & PAINTING OF EXPOSED PORTION OF EARTHING RISER BY CLEANING SURFACE WITH EMERY PAPER AND APPLYING ONE COAT OF RED OXIDE FOLLOWED BY TWO COATS OF GREEN ENAMEL PAINT OF APPROVED BRAND & MANUFACTURE.	METER	0.00	0	0	4.83	0.00	
32.3	SUPPLY, ERECTION & FIXING OF STEEL STRUCTURES IN EXCAVATED PIT IN ALIGNMENT AFTER CHECKING THEM SAME WITH PLUMB LINE AS PER APPROVED DESIGN AND DRAWING FOR VARIOUS EQUIPMENTS OF CAPACITOR BANK INSTALLED AT RESPECTIVE 33/11KV SUB STATION. THE STRUCTURE SHOULD BE GROUTED AND MUFFED IN CEMENT CONCRETE.	MT	0.00	0	0	431	0.00	

32.4	SUPPLY AND INSTALLATION OF VARIOUS EQUIPMENTS: SUPPLY AND ERECTION OF FOLLOWING EQUIPMENTS COMPLETE WITH ACCESSORIES INCLUDING USE OF SPECIAL TOOLS & CONDUCTING ALL PRE COMMISSIONING TESTS BEFORE ENERGISATION, COMPLETE IN ALL RESPECT.							
a.	FOR 2.0 MVAR CAPACITOR BANK, 7.3 KV, CAPACITOR UNITS (10 NOS. X 200 KVAR RATING AS PER SPECS) ON STRUCTURE INCLUDING INTERCONNECTION WITH CONNECTING STRIPS, JUMPERING, WIRING ETC.,	SET	0.00	617722.5	0	7817.5	0.00	supply cost Incl in 32.4a
b.	110 V DC - 120 AH VRLA MAINTENANCE FREE BATTERY SET	SET	0.00	0	0	656.5	0.00	
c.	11 KV SERIES REACTOR ON SUPPORTING STRUCTURE INCLUDING CHECKING OF WIRING & CONDUCTING ALL PRE COMMISSIONING TESTS BEFORE ENERGISATION & SATISFACTORY OPERATION IN ALL RESPECT.	NOS.	0.00	0	0	656.5	0.00	
d.	11 KV VCB COMPLETE WITH ACCESSORIES INCLUDING USE OF SPECIAL TOOLS & CONDUCTING ALL PRE COMMISSIONING TESTS BEFORE ENERGISATION, COMPLETE IN ALL RESPECT WITH ERECTION & GROUTING OF STRUCTURE (EXCLUDING CIVIL WORKS). THE RELAYS WILL BE TESTED BY DISCOM.	NOS.	0.00	0	0	656.5	0.00	
e.	CURRENT/ POTENTIAL/ RESIDUAL VOLTAGE TRANSFORMER ON SUPPORTING STRUCTURE INCLUDING CHECKING OF WIRING & CONDUCTING ALL PRE COMMISSIONING TESTS BEFORE ENERGISATION & SATISFACTORY OPERATION IN ALL RESPECT.	SET	0.00	0	0	656.5	0.00	
i.	11 KV CURRENT TRANSFORMERS (CT SET OF 3 NOS.)	SET	0.00	0	0	656.5	0.00	
ii.	11KV POTENTIAL TRANSFORMER (PT SET OF 1 NO.)	SET	0.00	0	0	656.5	0.00	
iii.	11KV RESIDUAL VOLTAGE TRANSFORMER (SET OF 1 NO.)	SET	0.00	0	0	656.5	0.00	
f.	11KV GANG OPERATED MOTORIZED ISOLATING SWITCH WITH/WITHOUT EARTHING BLADE ON ERRECTED STRUCTURE WITH SETTING FOR ACCURATE OPERATION INCLUDING ALLIED ACCESSORIES COMPLETE IN ALL RESPECT AND JUMPERING BOTH ENDS FOR CONNECTION WITH THE SYSTEM.	SET	0.00	0	0	15.7635	0.00	
g.	11 KV CONTROL PANEL INCLUDING CHECKING OF WIRING & CONDUCTING ALL PRE COMMISSIONING TESTS BEFORE ENERGISATION & SATISFACTORY OPERATION IN ALL EQUIPMENTS EXISTING THEREOF. (THE RELAY WILL BE TESTED BY DISCOM).	SET	0.00	0	0	1776.9	0.00	
h.	110 V BATTERY CHARGER INCLUDING CHECKING OPERATION FLOAT CHARGING & BOOST CHARGING.	NOS.	0.00	0	0	0	0.00	
32.5	CONTROL CABLING WORK:				0		0.00	
32.5.1	SUPPLY & LAYING PVC PIPES OF ONE LENGTH SIZE 65 MM DIA WITH 2.5 MM THICKNESS FOR DC SUPPLY, ONE LENGTH SIZE 65 MM DIA WITH 2.5 MM THICKNESS FOR CT, PT & RVT AND ONE LENGTH 25 MM DIA WITH 2.0 MM THICKNESS FOR AC SUPPLY AND BURIED 0.5 M DEEP (MIN.) AFTER LAYING CONTROL CABLE.							
a.	PVC PIPES OF ONE LENGTH SIZE 65 MM DIA WITH 2.5 MM THICKNESS	METER	0.00	0	0	0	0.00	
b.	PVC PIPES OF ONE LENGTH SIZE 25 MM DIA WITH 2.0 MM THICKNESS	METER	0.00	0	0	0	0.00	
32.5.2	SUPPLY AND LAYING OF CONTROL CABLE FROM EQUIPMENTS TO JUNCTION BOX TO CONTROL ROOM, IN 2 PVC PIPES SUPPLIED AS PER 5.1 OF THIS SCHEDULE. PROVIDING AND FIXING ALLUMINIUM IDENTIFICATION MARKER (AS PER DRAWING). FOLLOWING SIZES OF CONTROL CABLE SHALL BE USED.							
a.	4 C X 4.0 SQ.MM. FOR CT WIRING	mtr	0.00	83.824	0	14.6	0.00	
b.	4 C X 2.5 SQ.MM. FOR PT, RVT, AC SUPPLY & BREAKER TO C & R PANEL	mtr	0.00	42.195	0	13	0.00	
c.	12 C X 2.5 SQ.MM. FOR BREAKER TO C&R PANEL	mtr	0.00	181.24	0	17.9	0.00	
32.5.3	TERMINATION AND DRESSING OF CONTROL CABLE AT EACH END MAKING OF LOOPS, PROVIDING FERRULES & FERRULING WORK, PRESSING OF COPPER LUGS AND MAKING CONNECTION AS PER CABLE SCHEDULE FOR VARIOUS EQUIPMENTS. (REQUIRED QUANTITY OF LUGS, FERRULES ETC TO BE SUPPLIED BY THE CONTRACTOR.							
a.	2 X (4 C X 4/2.5 SQ.MM.)	NOS.	0.00	0	0	0	0.00	
b.	3 X (4 C X 2.5 SQ.MM.)	NOS.	0.00	0	0	0	0.00	
c.	12 C X 2.5 SQ.MM.	NOS.	0.00	0	0	0	0.00	
32.5.4	SUPPLYING & FIXING OF JUNCTION BOX SIZE 450 X 300 X 250 MM OUTDOOR TYPE FLOOR MOUNTED FABRICATED OUT OF COLD ROLLED STEEL SHEET 16 SWG WITH BRANCHING AND SUPPORT OF MS ANGLE 45 X 45 X 5 MM. THE BOX SHOULD BE PAINTED WITH THE COAT OF ZINC CHROMATE PRIMER AND TWO COATS OF LIGHT GRAY PAINT. REMOVAL OF GLAND PLATE OF 3 MM THICKNESS WITH RUBBER GASKET FOR CABLE ENTRY AT BOTTOM GLAND PLATE SHOULD BE SPACIOUS TO FIX 6 NOS. CABLE GLAND OF 25 MM SIZE DOUBLE HINGED DOOR WITH PAD LOCK PROVISION SHOULD BE GASKET WITH FOAM RUBBER TO MAKE JUNCTION BOX DUST & WATER PROOF. SUPPLY OF JUNCTION BOX WILL INCLUDE FOLLOWING ITEMS.		0.00	2220	0	0	0.00	
a.	THE TOP COVER OF JUNCTION SHOULD HAVE SLOPE OF 10 MM SO THAT WATER IS NOT COLLECTED ON TOP OF THE BOX.	NOS	0.00	0	0	0	0.00	
b.	18 NOS. TERMINAL BLOCKS OF 30 AMP. BOLTED TYPE WITH END PLATE AND SCREWS FIXED ON 36 CM MOUNTING CHANNEL FOR TERMINAL BLOCK WITH BOLTS & NUTS OF 25 X 9 SQ. MM ON SIDE SUPPORT INSIDE JUNCTION BOX. THE TERMINAL BLOCKS SHOULD BE DETACHABLE TYPE, WHICH CAN BE REMOVED OR ADDED INDIVIDUALLY AND SUITABLE FOR 4/6 MM LUGS. THE TERMINAL BLOCK SHOULD BE PREFERABLY OF GEC/ ALSTHOM/ ESSUAN/ MALAMIN PVC OR EQUIVALENT MAKE.	NOS	0.00	0	0	0	0.00	
c.	THE SUPPORT OF JUNCTION BOX MADE AT MS ANGLE SIZE 45 X 45 X 5 MM WITH CLEAT HAVING 1.2 METER LENGTH OF EACH SUPPORT SHOULD BE GROUTED IN CEMENT CONCRETE RATIO 1:3:6.	NOS	0.00	0	0	0	0.00	
33	SUPPLY AND FIXING OF M.S. NUTS & BOLT OF ASSORTED SIZE FOR MISC UNSPECIFIED ACTIVITIES WHERE NUT/BOLTS ARE NOT INCLUDED.	MT	0.00	57229.83	0	240.3	0.00	
34	SUPPLY, FABRICATION AND FIXING OF YARD LIGHTING IN THE SUB-STATION (USING 9.0 M LONG MS 2.0 MM THICK SHEET RED-OXIED & AL-PAINTED (2-COATS OF EACH) TUBULAR POLES WITH 150W STREET LIGHT-LAMP WITH FIXTURE LT POWER CABLE 2CX4SQ.MM.					0		
a.	NOS. OF 9.0 M TUBULAR POLES OF M.S. SHEET OF 2.00 MM THICKNESS.	NOS.	0.00	9704	0	1835	0.00	
b.	STREET LIGHT FIXTURE WITH CLAMP AND 150 W SODIUM/MERCURY VAPOUR LAMP /LED LAMP OF EQUIVALENT ILLUMINATION LUX VALUE	SET	0.00	6065	0	207.3	0.00	
c.	LT PVC POWER CABLE 2CX4 SQ,MM	mtr	0.00	24.97	0	20	0.00	
B.	33 KV OVERHEAD LINE WORK							

1	CONDUCTING ROUTE SURVEY , TRIMMING OF TREE BRANCHES ALONG THE ROAD AS PER APPROVED ROUTE MAP AND PEGGING OF ROUTE WITH SECTION POINT/DOUBLE POLE LOCATION FOR SPECIFIED NUMBERS OF DIFFERENT WORKS AT DIFFERENT LOCATIONS.	KM	0.80	0.00	0	300.9	240.72	
2	<b>SUPPLY &amp; ERECTION OF 12.8 MTR. LONG LATTICE TOWER MADE OF 65 X 65 X 5 MM M.S. ANGLE WITH 50 X 6 MM M.S. FLAT FOR BRACING INCLUDING EXCAVATION OF PIT 1.50 X 1.50 X 2.10 M IN GROUND. THE TOWER SHOULD BE ERECTED BY CC GROUTING &amp; MUFFED IN CEMENT CONCRETE OF MIX RATIO 1:3:6 HAVING SIZE OF 1.20 X 1.20 X 2.10 M OVER BASE CONCRETE OF 100 MM THICK IN MIX 1:5:10 AS PER IS SPECIFICATIONS. THE REMAINING POSITION OF THE PIT BE BACK FILLED WITH WATERING &amp; RAMMING AND SURPLUS MATERIAL SHALL BE DISPOSE- OFF WITHIN LEAD OF 50 M.</b>							
a.	IN ALL TYPES OF SOIL - TOWER WEIGHT - 508 KG	NOS.	5.00	24310.62	121553.1	6858.361	34291.80	
b.	ORDINARY ROCK (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD -TOWER WEIGHT 508 KG.	NOS.	0.00	24310.62	0	7397.638	0.00	
c.	HARD ROCK/CC ROAD -TOWER WEIGHT 508 KG.	NOS.	0.00	24310.62	0	7977.305	0.00	
3	SUPPLY AND FIXING OF 33KV 'V' CROSS ARMS MADE OF M.S. CHANNEL 100X50 MM ISMC [9.56 KGS PER MTR.] ON THE EXISTING LATTICE TOWER INCLUDING ALL NECESSARY CLAMPS NUT AND BOLTS ETC. WEIGHT OF THE CROSS ARM WILL BE AS PER DRAWING	NOS.	0.00	0.00	0	40.4956	0.00	
4	SUPPLY AND FIXING OF A SET OF 4 NOS. 33KV 'V' CROSS ARMS(CHAKRI) MADE OF M.S. CHANNEL 100X50 MM ISMC [9.56 KG PER MTRS.] ON THE EXISTING LATTICE TOWER WITH BRACING OF M.S. FLAT ( 50 X 10 MM) INCLUDING NUT AND BOLTS ETC. WEIGHT OF THE ITEM WILL BE AS PER DRAWING	NOS.	12.00	3032.24	36386.88	187.1024	2245.23	
5	SUPPLY AND FIXING OF M.S. CHANNEL [CUT POINT ] 100X50 MM ISMC [9.56 KG. PER MTR] 2X1.8 MTRS LONG WITH PILOT PATTI 50X6MM THICK AND NECESSARY NUTS AND BOLTS ETC. WEIGHT OF THE CUT POINT CHANNEL WILL BE AS PER DRAWING APPX. 36.00 KG.	NOS.	4.00	1855.21	7420.85	49.3976	197.59	
6	SUPPLY AND FIXING OF 33 KV PORCELAIN PIN INSULATOR WITH PIN ON EXISTING POLE COMPLETE INCLUDING ALL ACCESSORIES LIKE HARDWARE FITTING AND NUTS AND BOLTS ETC.	NOS.	135.00	320.99	43333.65	12.42	1676.70	
7	SUPPLY AND FIXING OF 3 NO. 11 KV B&S TYPE 120 KN PORCELAIN DISC INSULATOR ON COMPLETE LINE DP INCLUDING ALL ACCESSORIES LIKE HARDWARE FITTING 1 NO. AND NUTS AND BOLTS ETC.	NOS.	35.00	1409.73	49340.55	36.14	1264.90	
8	Supply and Drawing of overhead steel cord aluminium ACSR 200 sqmm [ 30+7 strand, 3+3 mm] Panther conductor on existing cross arms through insulator.							
a.	ACSR Panther conductor	KM	3.00	145287.03	435861.09	5803.46	17410.38	
b.	PG Clamps for Panther conductor	Nos.	0.00	165.55	0	5.528	0.00	
9	SUPPLY AND DRAWING OF GS WIRE NO.6 SWG HOT DIP GALVANIZED [5.0 MM DIA] COMPLETE IN ALL RESPECTS WITH BINDING WIRE EACH POLE WITH TOP HAMPER & CROSS ARM (WITH 1.1 M WIRE).	MT	3.00	8317.09	24951.26	730.28	2190.84	
10	SUPPLY AND INSLLATION OF HD GALVANISED M.S.ROD TYPE EARTHING SET MADE UP OF M.S.ROD 20 MM DIA. 3 METER LONG ALONGWITH EARTHING CLAMP & 8 SWG EARTH WIRE 15 METER LONG (FOR EARTHING OF 33 KV LINE) DRIVEN BY MECHANICAL MEANS INTO EARTH HOLE (MADE BY AUGERING) AND CONNECTING WITH G.I.EARTH WIRE.	NOS.	25.00	451.27	11281.75	229.17	5729.25	
11	PROVIDING AND LAYING OF CEMENT CONCERETING M.10 GRADE [ 1:3:6 ONE CEMENT THREE COARSE SAND,6 GRADED STONE AGGREGATE] INCLUDING CURING COMPACTION ETC. COMPLETE USING STONE AGGREGATE 20 MM NOMINAL SIZE,IN FOUNDATION AND PLINTH.	CUM	70.00	0.00	0	1606.5	112455.00	
12	SUPPLY AND PROVIDING OF PAINTING OF TWO COATS OF EACH OF RED-OXIDE AND ALUMINIUM PAINT OF APPROVED BRAND (ICI,ASIAN,BERGER OR EQUIVALENT) PAINT TO BE GIVEN AND EVEN SURFACE ON METAL SHEET [ 2 OR MORE COAT ON NEW WORKS ]	Q. MTR EAC	800.00	0.00	0	55	44000.00	
13	<b>SUPPLY &amp; ERECTION OF GS STAY SET 20 X 2400 MM WITH STEEL STRUT(RS JOIST 100 X 116 MM) IN GROUND AND GS STAY WIRE 7/4 MM TIGHTENED THROUGH 33 KV STAY INSULATOR INCLUDING CLAMPS INCLUDING EXCAVATION OF PIT SIZE 2X1.5X1.8 CUM IN GROUND, GROUTED AND MUFFED IN CEMENT CONCRETE.</b>							
a.	SOIL (EVERY TYPE)	NOS.	0.00	5326.36	0	639.1187	0.00	
b.	ORDINARY ROCK (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD	NOS.	0.00	5326.36	0	1613.369	0.00	
c.	HARD ROCK/CC ROAD	NOS.	0.00	5326.36	0	4244.249	0.00	
14	SUPPLY , FABRICATION AND FIXING OF BLACK CLAMP AND STAY CLAMP FOR CROSS ARMS, STAY, EARTH AND GUARDING BRACKET OF MS FLAT INCLUDING CUTTING, WELDING DRILLING OF HOLES IN ALL RESPECT AS PER DESIGN AND DRAWING.	MT	0.00	48831.48	0	3240.3	0.00	
<b>C. 33 KV UNDERGROUND CABLE</b>								
1	<b>SUPPLY, LAYING, ENERGISATION &amp; COMMISSIONING OF UNDERGROUND CABLE FOR WORKING VOLTAGE OF 33KV ALUMINIUM CONDUCTOR (IS 7098) CABLE XLPE ARMoured IN EXCAVATED TRENCH AS PER IE RULES AND METHODS OF IS:1255, 25 CM. THICK UNDER LAYER OF SAND, II CLASS BRICK COVERING, REFILLING OF EARTH IN THE REMAINING PORTION, MAKING NECESSARY CONNECTION INCLUDING TESTING ETC. AS REQUIRED AND PROVIDING /FIXING CABLE ROUTE INDICATORS AT EVERY 30 MTR OF CABLE &amp; AT EVERY TURN (AS PER LATEST SPECIFICATIONS AND DESIGN &amp; DRAWING APPROVED BY NIGAM).[ROAD CROSSING OF CABLE SHALL BE IN DOUBLE WALLED CORRUGATED PIPE OF APPROPRIATE DIAMETER]</b>							
a.	IN DWC PIPE OF DIA.300 MM FOR CABLE OF SIZE 3X300 SQ.MM	mtr	0.00	1409.877	0	818.03	0.00	
b.	IN BRICKS AS PER STANDARD	mtr	1.40	1409.877	1973.83	118.16	165.42	
c.	BY HDD VERMIER IN SOIL	mtr	0.00	1409.877	0	451.73	0.00	
d.	BY HDD VERMIER IN ORDINARY ROCK (WHERE BLASTING IS NOT REQUIRED) / PACCA ROAD	mtr	0.00	1409.877	0	1223	0.00	
2	<b>CABLE END TERMINATION KIT/ST JOINT, MAKING OUTDOOR JOINT FOR 33 KV ALUMINUM CONDUCTOR XLPE ARMoured HT CABLE WITH OUTDOOR AND TERMINAL END PREPARATION OF JOINT AS PER MANUFACTURES KIT GUIDANCE AND DIRECTION INCLUDING PREPARATION OF CABLE END &amp; TESTING ETC</b>							
a.	XLPE 3X300 SQ.MM H.S. ON OUTDOOR TYPE	NOS	6.00	4010.52	24063.12	1069.1	6414.60	
b.	XLPE 3X300 SQ.MM H.S.S.T. JOINT	NOS	14.00	12990.33	181864.62	2280.76	31930.64	

3	SUPPLY, FABRICATION AND FIXING OF BLACK CLAMP AND STAY CLAMP USING MS FLAT 50X10MM(COLD BENDING) FOR CROSS ARMS, STAY, EARTH AND GUARDING BRACKET OF MS FLAT INCLUDING CUTTING, WELDING DRILLING OF HOLES IN ALL RESPECT AS PER DESIGN AND DRAWING INCLUDING REQUIRED NUT BOLTS.	MT	0.00	48831.48	0	3000	0.00	
4	SUPPLY & INSLATION OF HD GALVANISED M.S.ROD TYPE EARTHING SET MADE UP OF M.S.ROD 20 MM DIA. 3 METER LONG ALONGWITH EARTHING CLAMP & 8 SWG EARTH WIRE 15 METER LONG (FOR EARTHING OF 33 KV LINE) DRIVEN BY MECHANICAL MEANS INTO EARTH HOLE (MADE BY AUGERING) AND CONNECTING THE MS ROD TYPE EARTHING SET WITH CROSS ARMS, TOP HAMPERS, PCC POLE/STRUCTURE & EARTH WIRE ETC.	SET	0.00	451.27	0	227.12	0.00	
5	PROVIDING AND FIXING OF G.I. PIPE OF 150 MM DIAMETER, B-CLASS (IS:1239 MARK), AT THE STARTING AND FINISHING POINT OF 33 KV UNDER GROUND CABLES AND TO LAY & CLAMP VERTICALLY WITH THE EXISTING SUPPORT, INCLUDING LABOUR CHARGES.	MTR.	10.00	0	0	1056.6	10566.00	cost of supply included in erection cost
<b>D. RETREIVAL OF MATERIAL</b>								
1	TOWER 42'	NOS.	0.00	0	0	4749.824	0.00	
2	MS RAILS 42'	NOS.	0.00	0	0	12002.23	0.00	
3	R.S.JOIST 42'	NOS.	0.00	0	0	577.7362	0.00	
4	33 KV V-CROSS ARM & TOP HAMPER	NOS.	0.00	0	0	173.8425	0.00	
5	33 KV PIN INSULATORS WITH PIN	NOS.	0.00	0	0	530.88	0.00	
6	DISC INSULATOR WITH HARDWARE B & S TYPE	NOS.	0.00	0	0	1382.616	0.00	
7	ACSR PANTHER CONDUCTOR	KM.	0.00	0	0	347.9018	0.00	
8	ACSR DOG CONDUCTOR	KM.	0.00	0	0	12774.8	0.00	
9	ACSR RACCOON CONDUCTOR	KM.	0.00	0	0	118.2328	0.00	
10	G.I.STAY SET	SET	0.00	0	0	3501.126	0.00	
11	G.I.STAY WIRE	MT	0.00	0	0	41061	0.00	
12	GI EARTH WIRE	KGS	0.00	0	0	39.69914	0.00	
<b>TOTAL COST (33 KV)</b>					<b>4073909</b>		<b>869910</b>	
<b>TOTAL COST (LT+11KV+33KV)</b>					<b>93353521</b>		<b>25052483</b>	

**NOTE:1. THE TOTAL QUANTITY OF INDIVIDUAL MATERIAL ITEMS INDICATED IN DIFFERENT WORK ACTIVITIES SHALL BE CONSIDERED FOR MONITORING OVERALL QUANTITY VARIATION CLAUSE OF THE SPECIFICATIONS.**

**2. THE ABOVE QUOTED PRICES ARE INCLUSIVE OF ALL TAXES & DUTIES ETC. THE BREAKUP OF TAXES & DUTIES ARE GIVEN BELOW.**

**A) EXCISE DUTY.....%**

**B) VAT/CST.....%**

**C) ENTRY TAX.....%**

**D) OTHER TAXES.....%**

**3. ANY STATUTORY VARIATION IN TAXES & DUTIES SHALL BE ON NIGAM PART AND SHALL BE REIMBURSED TO THE FIRM ON PRODUCTION OF DOCUMENTARY EVIDENCE. IN CASE OF DOWN WARD REVISION OF EXCISE DUTY & OTHER TAXES, SAME SHALL BE RECOVERED FROM THE ABOVE PRICES.**

**4. THE ROAD CUT/RESTORATION CHARGES SHALL BE REIMBURSED BY THE NIGAM ON ACTUAL BASIS ON PRODUCTION OF RECEIPT OF CONCERNED CIVIC AUTHORITY. THE BIDDERS ARE ADVISED NOT TO INCLUDE ROAD RESTORATION CHARGES IN ABOVE PRICES WHEREVER APPLICABLE.**

**5.THE ERECTION, TESTING &COMISSIONING CHARGES INCLUDES COST OF ALL TYPE OF REQUIRED LOCAL TRANSPORATION FROM & TO CIRCLE STORES TO TEMP STORAGE/SITE ETC.**

**6. WE HEREBY OFFER /QUOTE THE PRICES ABOVE / BELOW OF THE SPECIFIED PRICES GIVEN ABOVE AS UNDER.**

**A) SUPPLY= (+/- ..... %)**

**B) ERECTION= (+/- ..... %)**

**7. IT IS MANDATORY FOR THE BIDDERS TO QUOTE THE TENDER PREMIUM SEPARATELY IN RESPECT OF SUPPLY & ERECTION CHARGES.**

**8. THE FREE ISSUE ITEMS SUCH AS 33 KV & 12KV VCB, 33/11 KV POWER TRANSFORMER,11/.4 KV DISTRIBUTION TRANSFORMERS, ENERGY METERS ETC. SHALL BE SUPPLIED BY NIGAM, HENCE NO SUPPLY PRICES HAS BEEN MENTIONED IN THE ABOVE SCHEDULE.**

**9.TOTAL COST OF BID=TOTAL COST CALCULATED UNDER "G"- SCHEDULE**

**NAME \_\_\_\_\_**

**AUTHORIZED SIGNATORY WITH COMPANY SEAL**